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REPORT NO. T 5/87

THE BODY COMPOSITION PROJECT: A SUMMARY REPORT AND DESCRIPTIVE DATA

U S ARMY RESEARCH INSTITUTE
OF
ENVIRONMENTAL MEDICINE
Natick, Massachusetts

DECEMBER 1986

UNITED STATES ARMY
MEDICAL RESEARCH & DEVELOPMENT COMMAND

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Weight control programs in the Armed Forces have received much attention due to recent interest in the development of military physical fitness programs. Prior to April, 1983, the US Army weight control program, ~~regulated by AR 600-9,~~ incorporated height-weight standards as a screen to identify 'overweight' soldiers. Height-weight tables suffer from many deficiencies; the most common problem is their inability to differentiate between an overweight state that is due to an abundance of muscle as opposed to excess fat. This issue was addressed in Department of Defense Directive ~~1308.1 and as a result, Army Regulation~~

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600-9 was revised in April, 1983. The revision included specific instructions for measuring an overweight state in terms of an individual's relative body fat as estimated by the sum of 4 skinfolds. Shortly after implementation, the validity of the height-weight and body fat standards as well as the appropriateness of the skinfold methodology was questioned. A study was designed to create a data base with which to validate several components of the Army weight control program. This report contains summary material and descriptive data for the total project. Data (n=72 variables) are analyzed by gender and race with age as a covariate and are presented for 1194 males and 319 females. Measurements included: demographic data, leisure time physical activity data, medical and smoking histories, photographic assessments in class A uniform and swimsuit, underwater weight with vital capacity and residual lung volume, aerobic capacity via treadmill test, maximal lift capacity to 60 inches, 12 skinfolds, 15 circumferences, 9 diameters, visual rating of adiposity, somatotype and Army physical fitness test results.

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Human subjects participated in these studies after giving their free and informed consent. Investigators adhered to AR 70-25 and USAMRDC Regulation 70-25 on Use of Volunteers in Research.

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TECHNICAL REPORT

NO. T 5/87

THE BODY COMPOSITION PROJECT:

A SUMMARY REPORT AND DESCRIPTIVE DATA

BY

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FOREWARD

Prior to 1983, the Army Weight Control Program, as described in AR 600-9, utilized a weight for height standard to detect unacceptable excessive overweight or obesity. Since excessive weight can not discriminate between fat and muscle, a 1983 revision of this regulation included a change in the definition of overweight, from weight in proportion to height, to an allowable relative body fat standard. To support this change, body fat standards were set, stratified by gender and age, and a four point skinfold technique was adopted as the method to estimate relative body fat levels for individual soldiers.

Several questions arose from the 1983 revision concerning the appropriateness of the new body fat standards as well as the suitability of the skinfold method chosen to estimate body fat in a US Army population. As a result, it was decided that new or additional information was needed to validate these body fat standards and to explore a more suitable means of assessing body fat in the US Army. This resulted in a tasking to this Institute to conduct research to address these two issues. This report describes the study carried out in answer to this tasking and summarizes the data collected.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

ABSTRACT

Weight control programs in the Armed Forces have received much attention due to recent interest in the development of military physical fitness programs. Prior to April, 1983, the US Army weight control program, regulated by AR 600-9, incorporated height-weight standards as a screen to identify 'overweight' soldiers. Height-weight tables suffer from many deficiencies; th ost common problem is their inability to differentiate between an overweight state that is due to an abundance of muscle as opposed to excess fat. This issue was addressed in Department of Defense Directive 1308.1 and as a result, Army Regulation 600-9 was revised in April, 1983. The revision included specific instructions for measuring an overweight state in terms of an individual's relative body fat as estimated by the sum of 4 skinfolds. Shortly after implementation, the validity of the height-weight and body fat standards as well as the appropriateness of the skinfold methodology was questioned. A study was designed to create a data base with which to validate several components of the Army weight control program. This report contains summary material and descriptive data for the total project. Data (n=72 variables) are analyzed by gender and race with age as a covariate and are presented for 1194 males and 319 females. Measurements included: demographic data, leisure time physical activity data, medical and smoking histories, photographic assessments in class A uniform and swimsuit, underwater weight with vital capacity and residual lung volume, aerobic capacity via treadmill test, maximal lift capacity to 60 inches, 12 skinfolds, 15 circumferences, 9 diameters, visual rating of adiposity, somatotype and Army physical fitness test results.

INTRODUCTION

In the last few years, issues concerning physical fitness have received greater emphasis in the military. The Secretary of the Army, the Honorable John O. Marsh, Jr., has been quoted saying: "The readiness of the US Army begins with the physical fitness of the individual soldiers, the non-commissioned officers, and the officers who lead them." This philosophy was also shared by then President Jimmy Carter, who helped to spark a renewed interest in the positive health benefits of exercise and weight control. He too was keenly interested in the development of military physical fitness programs.

Associated with this increased emphasis in fitness, the Army's weight control program has received much attention, most likely due to personal emphasis from the White House and the Pentagon. Prior to April, 1983, the US Army weight control regulation, Army Regulation(AR) 600-9, incorporated height-weight standards as a screen to identify 'overweight' soldiers. These standards were developed from the Metropolitan Life Insurance actuary data (21).

Height-weight tables suffer from many deficiencies (19). The most common problem is their inability to differentiate between an overweight state that is due to an abundance of muscle as opposed to excess fat. It is possible for someone to be overweight based on height-weight standards, and still have a low percentage of their total weight made up of fat. This problem was first addressed from a military viewpoint by A.R. Behnke et al., in 1942 (1). After performing height and weight measurements on 25 healthy football players, 17 were found to be unfit for military service based

solely on their body weight. These athletes were considered obese by ordinary weight for height standards. However, careful examination of the composition of their body weight, utilizing the underwater weighing technique, revealed that the 17 'obese' athletes had below average body fat when compared to their sedentary counterparts. These athletes would be incorrectly classified by weight control regulations that use only height-weight tables to determine if an overweight condition was present. However, since the Army has no basis or desire to penalize the muscular individual, a method was needed by which excess weight can be attributed to either muscle or fat. This issue was highlighted at a Department of Defense(DoD) Conference on Physical Fitness at the Airlie House in June, 1980. The recommendations of this conference (35) were incorporated into a DoD Directive, 1308.1 (34). This directive gave instructions regarding physical fitness and weight control programs for all the services and included several recommendations which directly affected the Army's regulation concerning weight control, AR 600-9. These recommendations are summarized as follows:

1. Establish gender specific body fat standards to replace the current height-weight tables.
2. Take more effective measures to deal with the overweight problem.
3. Investigate the best field method for measuring body composition.
4. All services should implement body composition measurements in their weight control programs.

The major thrust of the new directive was that percent body fat would be the determining factor in weight control policy decisions. To implement these new recommendations the following changes were made in AR 600-9, effective 15 April, 1983:

1. AR 600-9, which prior to 1982 contained policy for both physical fitness and weight control programs, was divided into two regulations: a 350 series (training) regulation to provide policy for the physical fitness program, and AR 600-9 (a personnel management regulation) to continue to prescribe policies for the weight control program.

2. Revision of the height-weight tables. This revision altered height-weight tables to include age stratification. This age adjustment was incorporated to be consistent with the proposed age-adjusted body fat standards.

3. Prior to the 1983 revision, "an overweight condition existed when an individual's body weight exceeds the maximum allowable weight standard set forth in the appendix." In the revised regulation, "an individual is considered overweight when his or her percent body fat exceeds the standard specified in paragraph 19c..." The revised regulation depended upon height-weight tables to serve as a primary screen to identify those individuals who were overfat.

4. The Army chose to estimate body fat by using the skinfold caliper technique in conjunction with the regression equations of Durnin and Womersley (9). The skinfold technique was chosen because of all of the techniques available, e.g., radioisotopes, radiography, underwater weighing, potassium-40, circumferences and skinfolds, skinfolds would be the most efficient technique in terms of equipment required, personnel, and ease of implementation. These arguments could also be used for circumferences; however, when the revisions were being discussed, skinfolds were considered the state of the art "field" technique. The circumference technique of Wright et al., (31) which was utilized by the US Marines, was considered unvalidated for an Army population. The 4 point skinfold technique of Durnin and Womersley (9) was chosen based on the following criteria: a) the method was age adjusted, b) the tables utilized to transform sums of skinfolds to percent body fat were easy to use, c) this method utilized the same skinfolds for men and women, d) all skinfolds were at or above the waist, and e) this methodology was utilized by other NATO armed forces.

5. Personnel who exceed the primary screen will have their body fat estimated using the skinfold method described above. The body fat standards are age adjusted to: a) reflect increases in body fat associated with the biological aging process, b) be more realistic in terms of physical changes in body composition with advancing age and c) be more realistic in terms of achievable goals for soldiers in the older age categories.

6. Personnel who pass the primary screen will not have their body fat estimated unless specifically requested by a commander because the soldier appears to have excess body fat.

7. Personnel who exceed the body fat standards and exhibit no clinical cause for obesity will have their records flagged and will be placed in a supervised weight control program.

8. Personnel who, after a medical examination, are considered medically predisposed to obesity, will be placed under the care of a physician.

9. Unsatisfactory progress in a weight control program is grounds for separation proceedings.

The above revisions were either the direct result of DoD Directive 1308.1 or the consensus of a Body Composition Working Group (7) which based it's recommendations on normative data and associated aerobic fitness data (29). The new standards and methods were implemented before they could be validated on an Army sample.

Shortly after implementation, both line officers and medical personnel questioned the validity of the height-weight and body fat standards as well as the appropriateness of the skinfold methodology. Most issues could not be answered due to the lack of an adequate base of information. Examples of these included:

1. Lack of adequate training of the large numbers of personnel needed to assess body fat by the skinfold technique.

2. Potentially large inter-measure variability of the skinfold technique (18).

3. Lack of a perfect relationship between body fat estimation using skinfolds and "true" body fat, particularly in the more obese subject. Errors of prediction increase when measurements are made on individuals at the extreme low and high ends of a body fat continuum (14,15).

4. Lack of a perfect relationship between appearance and percent body fat, i.e., individuals who meet body fat standards but have poor "military" appearance.

5. Failure of individuals to meet body fat standards who apparently meet job and readiness requirements.

PURPOSE

It was obvious to Headquarters, Department of the Army that new data were needed from studies designed specifically to answer the above stated concerns. The Exercise Physiology Division of this Institute was tasked (Appendix A) to acquire information needed to fulfill the following objectives:

1. Relate body fat levels to objective measures of physical appearance and performance.

2. Relate body fat levels to such factors as age, gender, race, MOS, and time in service.

3. Validate the revised height-weight and body fat standards using a sub-sample of active duty Army personnel.

4. Determine an improved field method for body fat estimation.

Therefore, a study entitled "Development of Recommendations for Body Fat Standards and Body Composition Measurements Required for Implementation of the Army Weight Control Program" was designed to address these objectives.

DESIGN AND METHODS

STUDY DESIGN

Our goal was to capture a sample that would represent the US Army population in respect to gender, age, and racial/ethnic characteristics and body fatness. The optimum approach would have been to test a random sample of the entire active duty component. However, as this was quite impractical and, for statistical purposes, unnecessary, a sub-sample was chosen based upon pre-determined categories listed in Table 1. The racial and ethnic categories are those suggested by Wallman and Hodgdon (30). Relative fatness of the sample as indicated by the percent falling outside the screening tables as shown in Table 1a.

Data were collected during three 3 week iterations, as shown in Table 2. Two locations were selected to obtain the sample, Fort Hood, Texas and Carlisle Barracks, Pennsylvania. Fort Hood offered a unique opportunity to select from a wide variety of military personnel since it is the largest Army post in the United States, being the home of the First Cavalry Division, the Sixth Cavalry Brigade and the Second Armored Division. Carlisle Barracks, the home of the Army War College, was included to provide the upper age categories which were not readily available at Fort Hood.

Each testing day data were collected on 50-55 soldiers. Soldiers reported for testing either from 0730-1230 or 1300-1800 hours without any prior instructions regarding food or fluid intake. They reported in their Class A uniform, with blouse, and hand carried their medical records, physical fitness test record and gym clothes. Subjects were briefed as to the nature of the study and requirements of their participation. They were informed that their participation was voluntary as required by AR 70-25. Approximately 3% of those soldiers briefed declined to volunteer. Those agreeing to participate signed a statement of informed consent and were randomly placed

Table 1. Classification categories for the sub-sample.

1.	Gender	Male Female
2.		17-20 21-27 28-39 40+
3.	Race	White-non-Hispanic Black-non-Hispanic Hispanic American Indian/Alaskan Native Asian/Pacific Islan[illegible]

Table 1a. Percent of sample by age groups that exceeded the weight for height screening tables

Gender	Age Group				
	All	17-20	21-27	28-39	40
Male	14	9	13	23	6
Female	34	52	25	40	50

Table 2. Time frame and geographic location of testing.

Phase	Date	Location	Sample Size*
I	25 Jun - 12 Jul 1984	Ft. Hood, TX	620
II	16 Aug - 31 Aug 1984	Carlisle, PA	300
III	15 Oct - 01 Nov 1984	Ft. Hood, TX	620

* approximate

into 5-7 member squads, each with a different rotation through a battery of measurements. These sequences were predetermined and are shown in Table 3.

Before rotating through the test battery, each squad had their pictures taken in their Class A uniform, filled out medical, smoking, and physical activity questionnaires, and received a directed medical examination. This exam was given to ensure that all participants were medically qualified for participation in the study, i.e., having no illness or injury that would place them at risk during the treadmill or lifting measurements.

METHODOLOGY

Photographic Assessment

Black and white, 2.25 x 2.25 inch photographs were taken of each subject, using a Mamiya 625 J camera with an 80mm, f2.8 lens. The camera and lens were supported by a tripod (Slik U212) which had an internal leveling apparatus. The arrangement of the photographic equipment is depicted in Figure 1. The camera was positioned 154 inches perpendicularly in front of the subject, at a height of 45 inches from the floor to the top of the camera body. Lighting was supplied using 4 quartz lights (Smith-Victor K-62) which were positioned in pairs at 77 inches and 154 inches. Black and white Kodak 220 roll film (Tri-X) was used with a 1/60 second shutter speed and a f8 aperture.

The Class A uniform photographs were taken with the soldier wearing a mask to protect his or her identity. Front, side and back views were photographed with the soldier in the position of attention in front of a measured grid. Photographs were taken following the suggestions of Tanner (27) and Carter (5). Figures 2 and 3 are examples of the photographs that resulted from the above process.

Table 3. Rotation sequences utilized during the 3 phases of testing.

PHASE	CODE	ROTATION SEQUENCE				
		1	2	3	4	5
I	BLUE	PHOTO	RLV/UWW	TM/IDL	ANTHRO	
	BROWN	TM/IDL	PHOTO	RLV/UWW	ANTHRO	
	PURPLE	RLV/UWW	ANTHRO	TM/IDL	PHOTO	
	YELLOW	ANTHRO	TM/DL	PHOTO	RLV/UWW	
II	BLUE	PHOTO	RLV/UWW	ANTHRO	MS	
	BROWN	PHOTO	ANTHRO	MS	RLV/UWW	
	PURPLE	PHOTO	MS	ANTHRO	RLV/UWW	
	RED	PHOTO	RLV/UWW	MS	ANTHRO	
III	BLUE	TM/IDL	ANTHRO	IMP	PHOTO	RLV/UWW
	BROWN	RLV/UWW	PHOTO	TM/IDL	IMP	ANTHRO
	PURPLE	ANTHRO	TM/IDL	PHOTO	RLV/UWW	IMP
	RED	PHOTO	RLV/UWW	IMP	ANTHRO	TM/IDL
	YELLOW	IMP	ANTHRO	RLV/UWW	TM/IDL	PHOTO

Where:

ANTHRO = Anthropometric measurements.
IMP = Impedance measurement.
IDL = Incremental dynamic lift.
MS = Muscle strength measurements.
PHOTO = Uniform photographs.
RLV = Residual lung volume measurements.
TM = Treadmill test.
UWW = Underwater weighing.

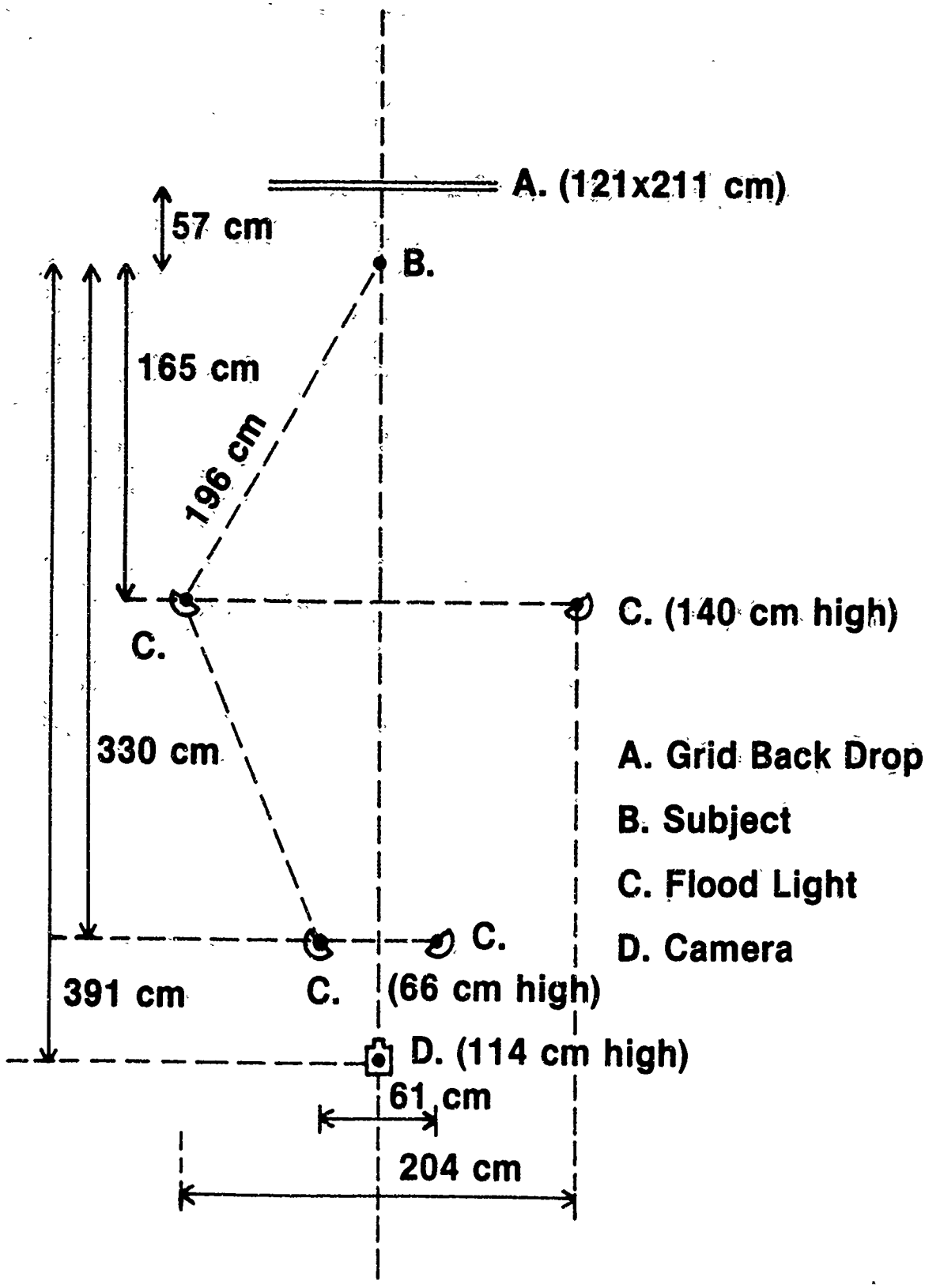


Figure 1. Layout of camera, lights and grid utilized during the uniform and swimsuit photographic assessments.

Bathing suit pictures were taken with the soldier positioned using a standard anthropometric pose (8). The same equipment and views were taken as described above. Males were clad in a black, nylon swim suit and females wore a one piece, dark colored nylon swim suit. A mask was worn to maintain the soldiers' anonymity. Figures 2 and 3 are examples of the photographs that resulted from the above process.

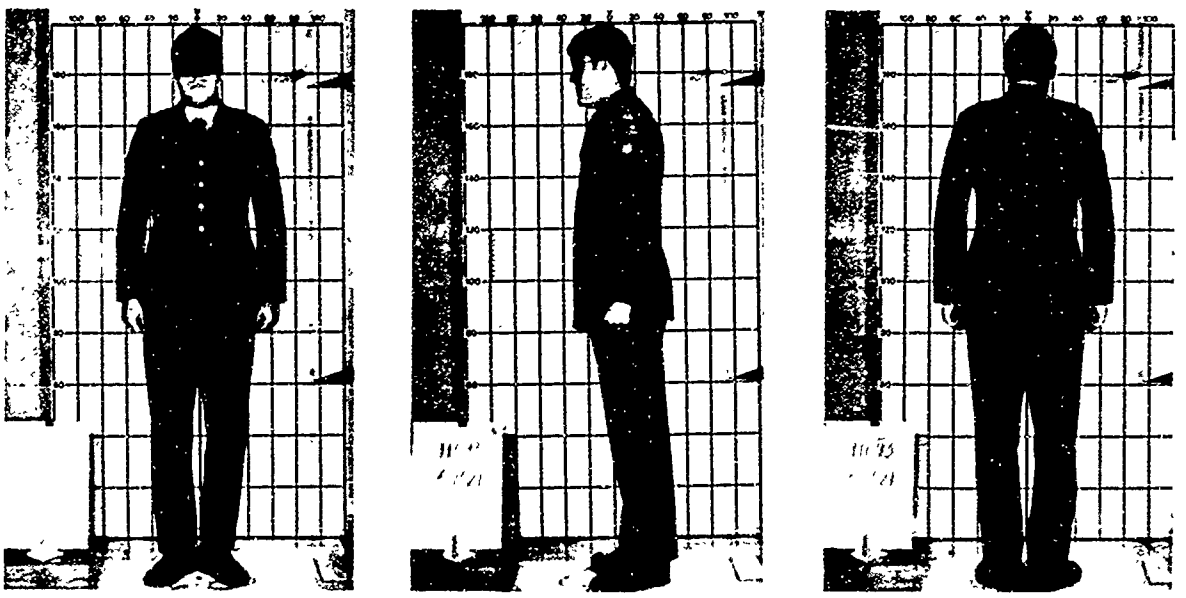
Rating of Military Appearance

The film was developed and, from the negatives, 35 mm slides were made for the appearance rating process.

A panel of military personnel was formed to rate the military appearance of the soldiers. The panel was convened at the Pentagon and contained 11 members (5 female, 6 male); 6 officers, 5 enlisted, and the three major ethnic categories were included. The group consisted of representatives from MILPERCEN, TRADOC, OCAR, NGB, SSC, and FORSCOM. Each rater had had recent troop experience, i.e., was employed in a command or command support position. A complete set of instructions was given to the panel (see Appendix B). A data sheet was completed for each set of slides (see Appendix C). The actual rating was a subjective judgment based on the instructions and as influenced by the rater's own personal perception as to what is acceptable or unacceptable in respect to military appearance.

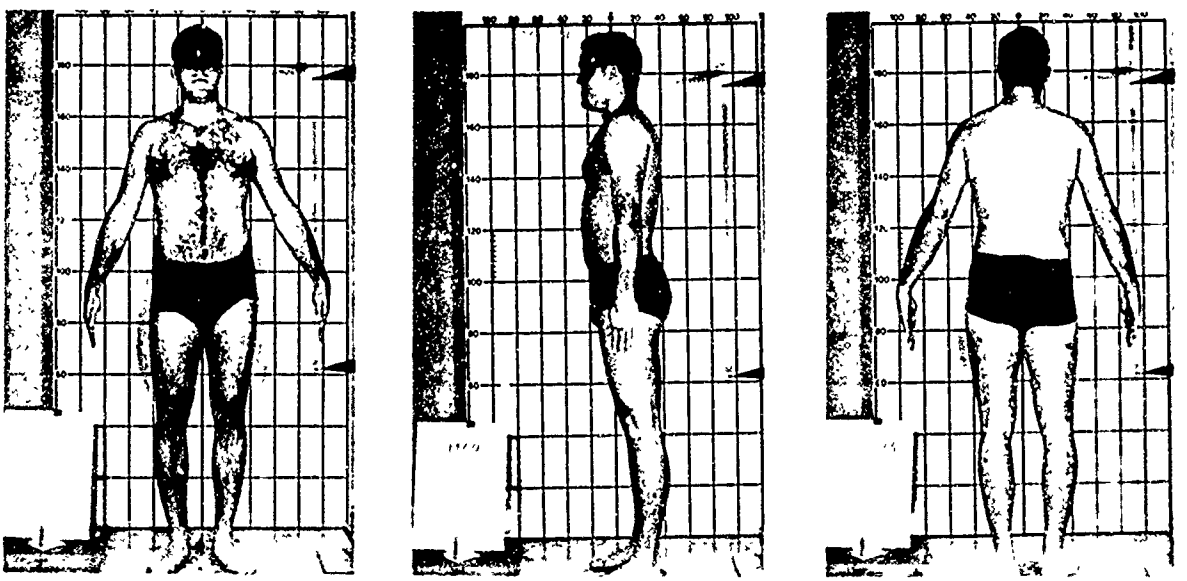
Slides of soldiers attired in the Class A uniform were rated during the first half of the week. Three projectors were set up and all three views were shown simultaneously. The projectors were positioned to allow for almost "life-size" projections which were viewed for approximately 20 seconds. When the rating of the soldiers in uniform was completed, the same procedure was

MALE UNIFORM



FRONT SIDE BACK

MALE SWIMSUIT



FRONT SIDE BACK

Figure 2. Pictures resulting from the uniform and swimsuit photographic assessments for male soldiers.

FEMALE UNIFORM

FRONT SIDE BACK

FEMALE SWIMSUIT

FRONT SIDE BACK

Figure 3. Pictures resulting from the uniform and swimsuit photographic assessments for female soldiers.

followed for the rating of the swimsuit slides. An additional score, which was arbitrarily called the 'K Rating' score (3) was obtained for the soldiers in swimsuits to estimate the body fat content. An explanation of this score can be found in Appendix B.

The entire rating process was completed during 5 consecutive working days. Raters reported to a predetermined room in the Pentagon for 8 hours of rating separated by a 1 hour recess for lunch and arbitrarily spaced short breaks.

Upon completion of the rating process, the data were keypunched and loaded onto a magnetic tape for addition to the body composition data base. The 2 point rating scale (acceptable, non-acceptable) was later eliminated because it was improperly used by the raters.

Anthropometry

All anthropometric measurements were made using standardized techniques described by Behnke and Wilmore (2). Measurements were taken on the right side of the body with the subjects wearing shorts and a T-shirt. A total of 12 skinfolds, 8 diameters and 13 circumferences were measured on each subject. Specific descriptions of the anatomic locations of these sites as well as the determination of height and weight are located in Appendix D. Four anthropometrists were used. They were extensively trained and matched together prior to the study. Training continued until intra-rater reliability scores were less than 6%.

Somatotype Determination

According to Carter (5), "a somatotype is a present morphological conformation. It is expressed in a three numeral rating, consisting of three sequential numerals, always recorded in the same order. Each numeral represents an evaluation of one of the three primary components of physique

which describe individual varieties in human morphology and composition". The Heath-Carter Somatotype System (5) was utilized in this study. This system involves the estimation of three components (endomorphy, mesomorphy, and ectomorphy) using selected anthropometric measurements and mathematical transformations of these measurements. The first component, endomorphy, is a representation of the relative fatness or leanness (lack of fatness) in an individual's physique. The second component, mesomorphy, is a reflection of the relative musculo-skeletal development in relation to the individual's stature. Carter (5) states that this component is the lean body mass relative to stature. The third component, ectomorphy, is a reflection of the relative linearity of individual physiques. This component is derived from the ratio of height/$\sqrt{\text{weight}}$.

The following variables were required for the computation of somatotype:

1. Tricep SF
2. Subscapular SF
3. Suprailiac SF
4. Calf SF
5. Height
6. Weight
7. Ht/ $\sqrt{}$/weight
8. Elbow (humerus) D
9. Biceps (flexed) D
10. Knee (femur) D
11. Calf C

SF = Skinfold; D = Diameter; C = Circumference
For a full description of this method see Carter (5).

Body Composition

1. Residual Lung Volume

An accurate determination of an individual's density from underwater weight for the subsequent determination of body fat requires that residual lung volume be measured just prior to or during the underwater weighing process (13,22,25). To optimize testing time during this study, residual lung volume was determined just prior to the actual underwater weighing process, with the soldier outside of the underwater weighing tank. A simplified oxygen rebreathing technique was utilized (32). The subject assumed a sitting

position during the residual lung volume determination, which was similar to the posture utilized during the underwater weighing process. If there was greater that 150 ml difference, a third measure was taken, and the two closest values were averaged.

2. Vital Capacity

Vital capacity was determined using the procedures described by Cherniak (6). This measurement was taken as a back-up in case a soldier could not accurately perform the residual lung volume technique. When this occurred, the vital capacity was utilized to estimate residual lung volume following the suggestions of Wilmore et al., (31).

3. Underwater Weight and Body Density

Underwater weighing was conducted in a 4X4X5 foot aluminum tank. An aluminum chair was coupled with a load cell (Ametek), sensitive to 10 g, and both were suspended from a stainless steel trapeze. Output from the load cell was fed through an analog-to-digital converter (Hewlett-Packard) to a desk top calculator, programmed to store weights for subsequent determinations of a stable underwater weight and body composition parameters. The method for determining body density was similar to the one described by Goldman and Buskirk (10).

Soldiers reported to the underwater weighing area in nylon swim suits provided for them. After they were weighed on land and completed the vital capacity and residual lung volume measurements, they entered the underwater weighing tank. Water temperature ranged between 34-39^{0}C throughout the entire study. Consistent water temperatures were maintained by utilizing a filter and heating system attached to the underwater weighing system. It was engaged between subject measurements. Temperature measurements were determined using

a telethermometer (Yellow Springs Instrument Co.). Each soldier was given a 5-7 min orientation period. Most of the soldiers were unfamiliar with the technique and care was taken to ensure that they had a good understanding of the procedures involved in the underwater weighing process. Upon completion of the orientation period, the weight of the seat and an 8 kg weighted diving belt was determined with the subject submerged up to the neck. This was necessary because the water level in the tank rises as a person becomes submerged which affects the final weight of the seat. It was important to ensure that the subject did not touch the seat at this time. Once the seat weight was determined, the soldier secured the weight belt around the waist and sat in the aluminum chair. The soldier's subject number, gender, age, race, body weight, vital capacity and residual lung volume were entered into a Hewlett-Packard 85 desktop computer. The subject was given a noseclip, and a mouthpiece, attached to a snorkel apparatus, was inserted. The soldier submerged completely by bending forward at the waist. Using a series of predetermined signals (voice and tapping on the side of the tank), the soldier took a maximal inhalation followed by a maximal exhalation. Both the tank operator and the computer operator received feedback from the submerged soldier via a load cell indicator and the breathing apparatus. The computer operator would follow the breathing pattern by watching underwater weight changes on the load cell indicator. The tank operator listened to and felt the air leaving the snorkel apparatus. When exhalation started to level off, as evidenced by a stable reading on the load cell indicator and by an inability of the tank operator to perceive the soldier's exhalation from the snorkel apparatus, a computer program was engaged to sample the underwater weight for approximately 10-15 s. Following the sample period the subject was

signaled to return to normal breathing until the next trial. The soldier had the option to remain submerged or to surface between trials. A series of 7-10 trials were taken. Body density was calculated using the formula of Buskirk (4). Body density (g/cc) was converted to percent body fat using the formula of Siri (26). A more detailed description of the underwater weighing system and procedure will be presented in a separate technical report.

In a separate study prior to commencing measurements at Fort Hood, repeated measures were made on 35 subjects with the same equipment and procedures to assess variation between days and trials. Twenty-six men and nine women were weighed 10 times in succession each day for five successive days. There was no statistically significant change in density over days or within trials (Days F=0.29, Trials F=0.78, Day/Trial=0.64).

Physical Performance

1. Maximal Lift Capacity

Maximal lift capacity was measured using an incremental lift device, described by McDaniel et al., (20) as shown in Figure 4. Each soldier was required to raise weights on a vertical slide in incremental steps, until the maximal weight that could be lifted was achieved. All subjects started with a minimal lift of 40 pounds (18.18 kg), as this was the weight of the carriage. Males increased each subsequent lift by 20 pounds (9.09 kg), which was decreased to 10 pound (4.45 kg) increments when he appeared to be experiencing difficulty with the weight. Females increased each subsequent lift by 10 pounds (4.45 kg) until failure to raise the carriage to a height of 60 inches (152.4 cm). This sequence is depicted in Figures 5 and 6.

2. Aerobic Power

Aerobic power was determined as maximal oxygen uptake ($\dot{V}O_2$ max) using a

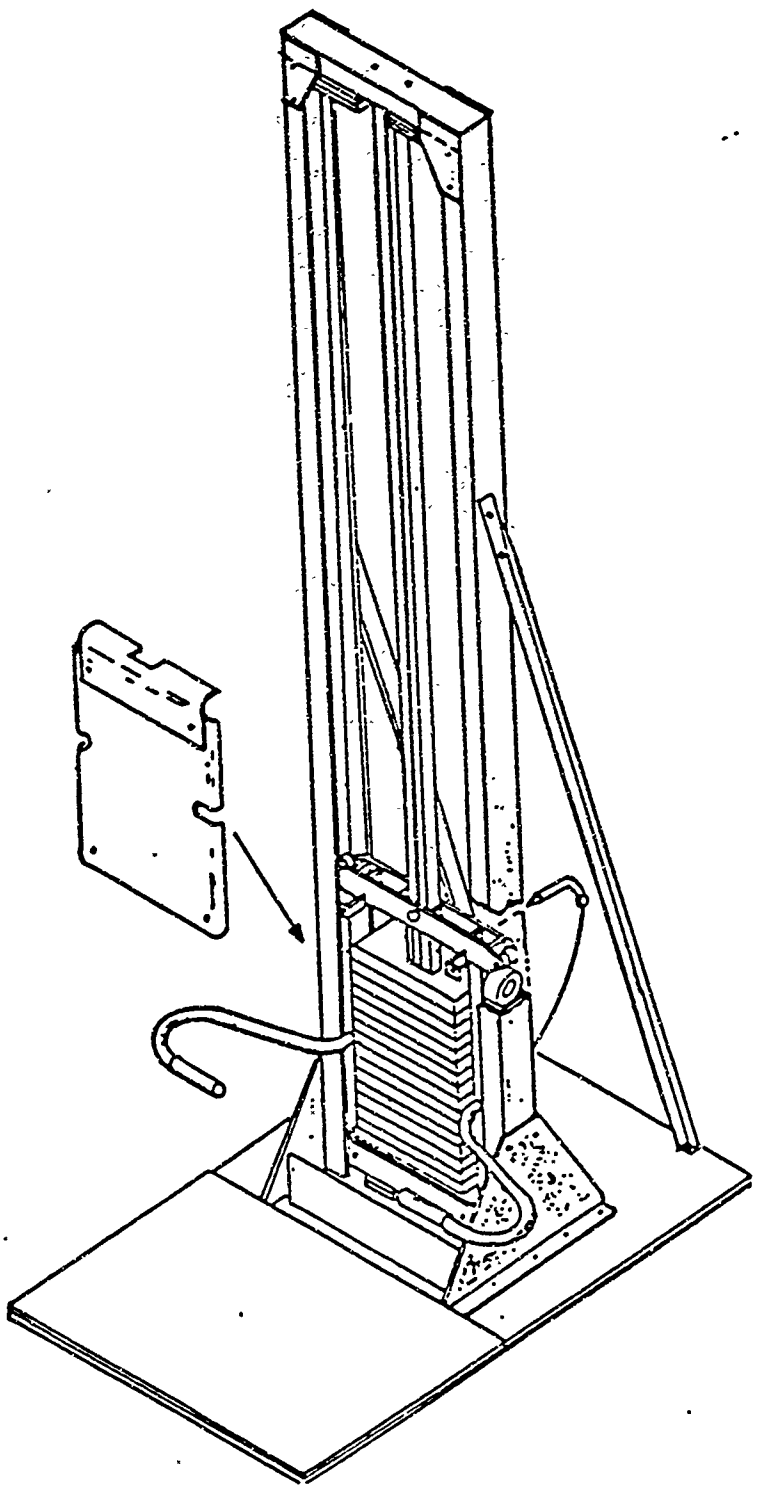


Figure 4. Incremental dynamic lift device (from reference 20).

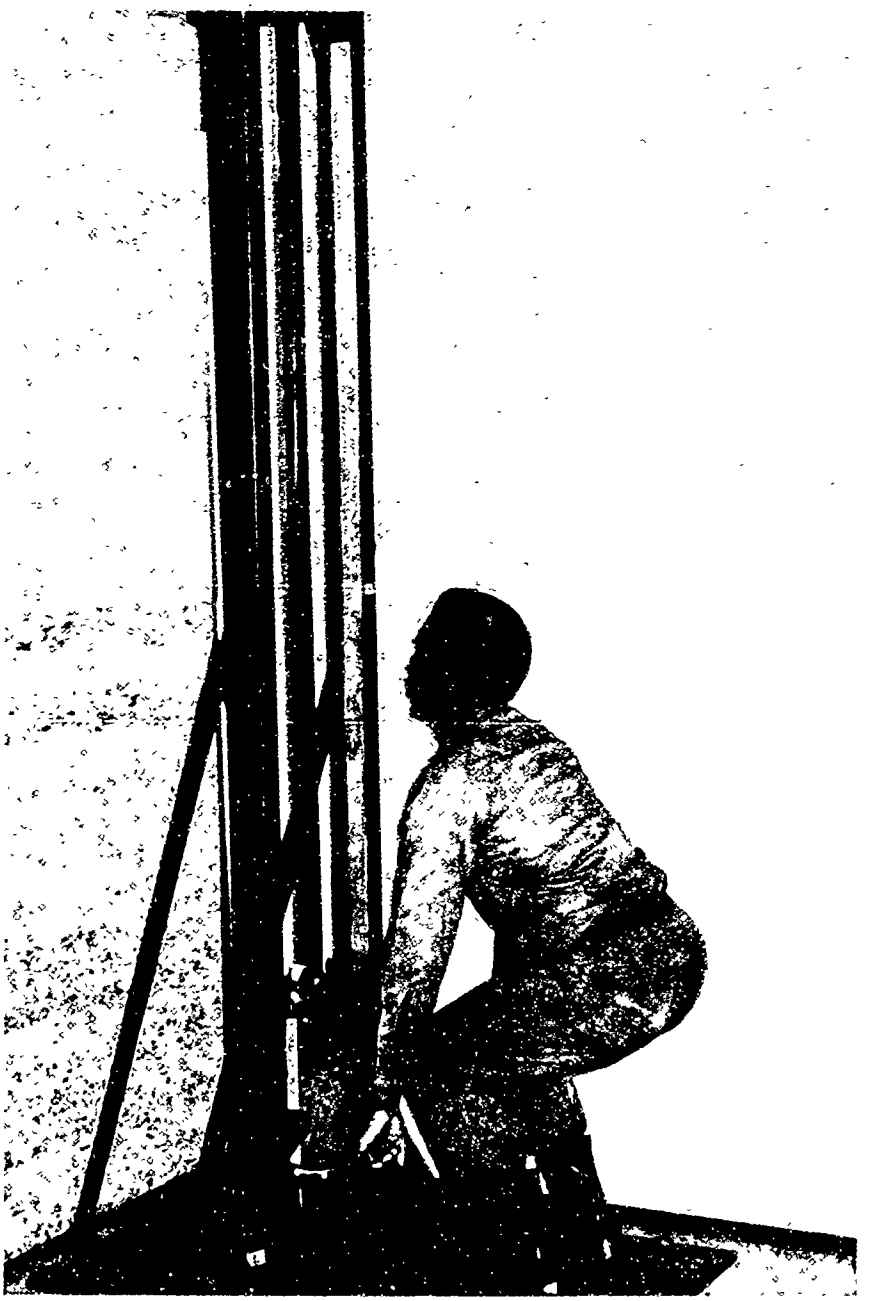


Figure 5. Preparatory posture for the incremental dynamic lift.

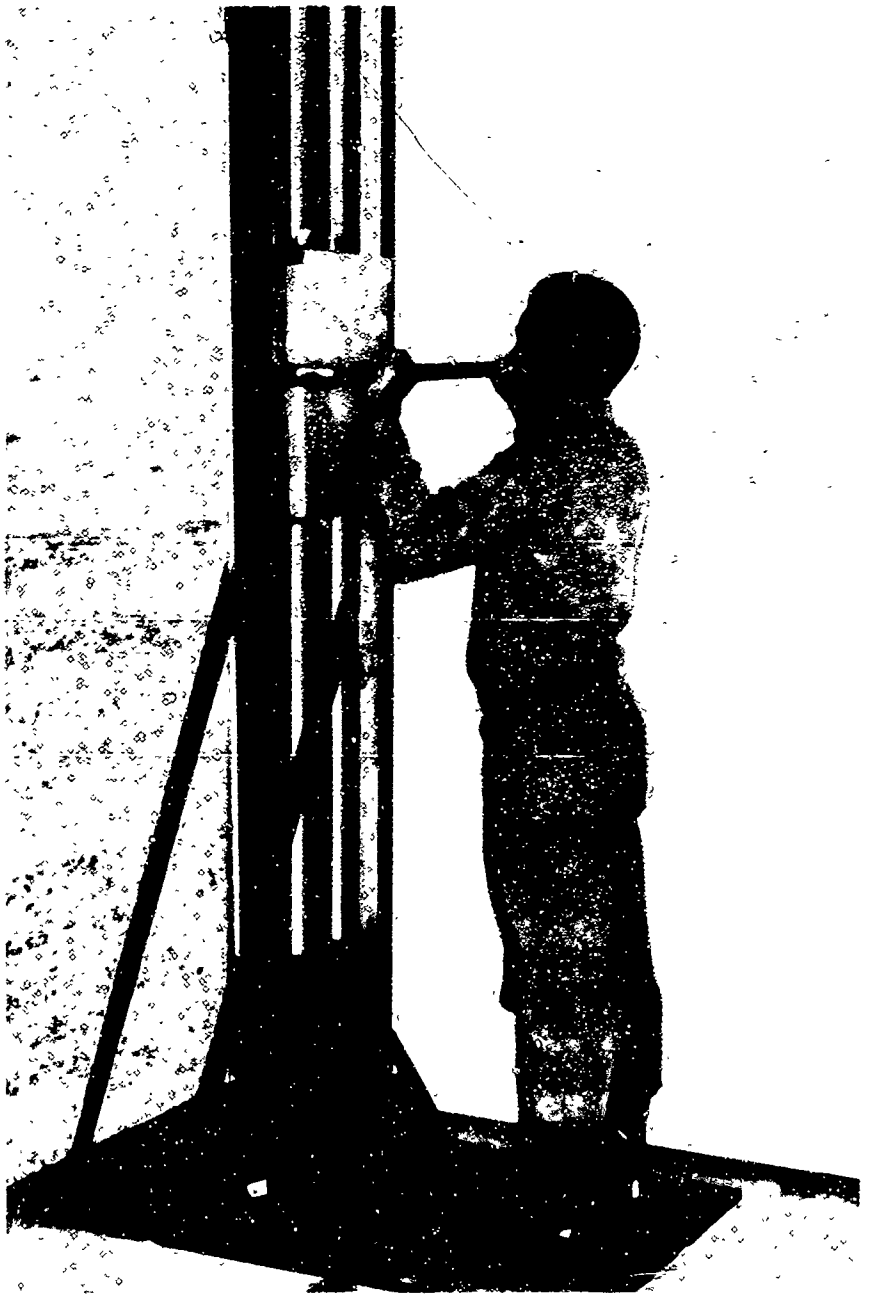


Figure 6. Posture at completion of the incremental dynamic lift.

motor driven treadmill. A continuous incremental test was used with a test protocol that was adjusted for gender, age, and activity level of the soldier. Soldiers between the ages of 17-35 and physically active soldiers within the 35-39 age range were given a continuous, incremental running test to volitional exhaustion. Men and women started at running speeds of 6 and 5 mph, respectively, at 0% grade. Every three minutes the treadmill grade was raised 2.5%, to a maximum of 12%. If the subject could continue, the grade remained at 12% and the treadmill speed was increased 0.5 mph every three minutes to exhaustion.

Inactive soldiers between 35 and 39 and all soldiers 40 and older underwent a modified US Air Force School of Aerospace Medicine (USAFSAM) treadmill protocol with 12 lead electrocardiogram (33). The test was begun at 3.3 mph, 0% grade, with a 5% grade increase every 3 minutes. This was continued until 15% grade was reached. At this time, if there were no contraindications to continue, the treadmill speed was increased to 6 mph,0% grade, and the treadmill elevation was raised 2.5% every 3 minutes.

3. Army Physical Readiness Test (APRT)

Records containing the biannual Army fitness test scores (Army Physical Readiness Test) were obtained from the subject's organizational files. The most recent scores for sit-ups and push-ups (in 2 minutes) and time for two mile run were extracted and incorporated into our data files.

RESULTS

INTRODUCTION

Clearly a data set of this magnitude and scope required a structured format for data presentation. The following pattern was followed:

A. Frequency tables/distributions were computed by gender for the following variables:

1. Rank
2. Duty MOS
3. Time in Service
4. Career Management Field/Branch
5. Unit Type
6. Age
7. Race Characteristics
8. Medical History
9. Exercise History

B. Descriptive statistics, including mean, standard deviation, minimum, maximum and cases included, were computed for the following variables grouped by gender, race and age:

1. Chin SF
2. Chest SF
3. Bicep SF
4. Tricep SF
5. Subscapular SF
6. Midaxillary SF
7. Waist SF
8. Abdomen SF
9. Suprailiac SF
10. Knee SF
11. Calf SF
12. Thigh SF
13. Head C
14. Neck C
15. Bicep C, relaxed
16. Bicep C, flexed
17. Shoulder C
18. Chest C
19. Abdomen 1 C
20. Abdomen 2 C
21. Hip C
22. Forearm C
23. Wrist C
24. Thigh C
25. Knee C
26. Calf C
27. Ankle C
28. Biacromial D
29. Chest D
30. Biiliac D
31. Bideltoid D
32. Bitrochanter D
33. Elbow D
34. Wrist D
35. Knee D
36. Ankle D
37. Endomorphy
38. Mesomorphy
39. Ectomorphy
40. Uniform Rating
41. Swimsuit Rating
42. K Rating
43. Vital Capacity
44. Residual Lung Vol.
45. Density
46. % Body Fat
47. Fat Free Mass
48. Fat Mass
49. Incremental Lift
50. Heart Rate *
51. Ventilation *
52. CO_2 Production *
53. $\dot{V}O_2$ Uptake *
54. $\dot{V}_E/\dot{V}O_2$
55. R *
56. $\dot{V}O_2$ ml·kg^{-1} min^{-1} *
57. Treadmill Grade *
58. Treadmill Speed *
59. Sit-ups
60. Push-ups
61. APFT Score
62. 2 Mile Run
63. Body weight
64. Height

*at $\dot{V}O_2$ max

C. Further analysis included an ANOVA for each dependent variable (N=62) using gender and race as grouping factors, and age as the covariate. This analysis was done to determine if there were differences in the dependent variable between genders and races when the variability due to differences in age was controlled. In order to test the null hypothesis of equality of group

means between genders and among races, it was important to control for the differences in age of these groups as subjects were not randomly selected or assigned by age to each group.

In the analysis of variance procedure, multiple regression was used to reduce unexplained variance; this is followed by the use of an analysis of variance to examine group differences. The analysis of covariance enabled us to statistically control the variability in the dependent variables, due to age, which we could not do given the design of the study.

D. To simplify the reported results and subsequent discussion, variables were clustered into the following categories: a) appearance, which included uniform, swimsuit and 'K' ratings and somatotype variables; b) body composition, which included residual lung volume, vital capacity, density, relative fat, lean body mass and fat mass; c) cardiovascular and metabolic responses to maximal treadmill exercise, which included oxygen uptake in liters and milliliters, carbon dioxide production, ventilatory equivalent, respiratory quotient, maximal heart rate, treadmill speed and treadmill grade; d) anthropometry, which included skinfolds, circumferences, diameters, height and weight; and e) physical performance measurements, which included maximal dynamic lift, push-ups, sit-ups, 2 mile run time and the APFT score.

SAMPLE CHARACTERISTICS

Upon completion of the data collection process, a total of 1513 soldiers, 1194 males and 319 females, volunteered to participate in the study. Career Management Field/Branch data indicated that the largest percentage (13%) of these soldiers (n=201) belonged to the Signal Corps, followed by Quartermaster (n=143, 10%), Infantry (n=135, 9%), Armor (n=141, 9%), and Field Artillary (n=138, 9%). Appendix E lists frequencies and percents of the total sample

for the Career Management Field/Branch data.

As indicated in Table 4, of the five unit types making up the sample population, the largest percentage was represented by Combat Support. Table 5 presents the age and race data as frequencies and percents of the total sample for all subjects, including those who were subsequently eliminated from the sample due to their fear of the underwater weighing process. The largest percentage of both male and female subjects regardless of age fall in the White category followed by Black, Hispanic, Asian/Pacific Islander and American Indian/Alaskan Native, respectively. Also, the 21-27 year age group make up the largest percentage of males and females regardless of race.

Table 6 illustrates the frequency and percent of total sample for time in service data of male and female subjects. These data are stratified by enlisted, warrant officer and officer status. From these data it can be noted that 78.9% of the sample were males compared and 21.3% females. Regardless of gender, 78.6% of the sample was represented by enlisted personnel, followed by officers (21.3%) and warrant officers (1.1%). The majority of the sample had 0-3 years service (31.4%), followed closely by those who had 16-21^{+} years service (23.7%). The sample was further broken down by component ranks. These data are represented in Table 7. For males, the rank with the highest frequency occurred at the rank of E4 (n=223, 19.8%), followed by E5 (n=158, 14.0%) and Colonel (n=158, 14%). For females, the rank with the greatest frequency occurred at E4 (n=85, 31.4%), followed by E5 (n=52, 19.2%).

Occupational specialty data are presented in Appendix F. Data were coded numerically according to categories presented in Appendix E. Examination of the data revealed that of the 1128 MOS categories reported by male subjects, 288 did not exist. Forty-seven of the 271 MOS codes reported by females were

Table 4. Representation of unit types in the sample.

Unit Type	Frequency	Percent of Total
Combat	463	31
Combat Support	535	36
Combat Service Support	315	21
Training	146	10
Staff	32	2

Table 5. Age and race data for males and females (frequency and % of total).

MALES

Age Group		W	B	H	AI/AN	API	Other	Totals
17-20	n	102	43	17	1	3	0	166
	%	6.5	3.6	1.4	0.1	0.2	0	13.9
21-27	n	209	133	51	1	10	2	406
	%	17.5	11.1	4.3	0.1	0.8	0.2	34.0
28-39	n	174	95	60	3	14	2	348
	%	14.6	7.9	5.0	0.2	1.2	0.2	29.1
40+	n	238	17	11	0	8	0	274
	%	19.9	1.4	0.9	0	0.7	0	22.9
ALL	n	723	288	139	5	35	4	1194
	%	60.6	24.1	11.6	0.4	2.9	0.3	100.0

FEMALES

Age Group		W	B	H	AI/AN	API	Other	Totals
17-20	n	41	20	8	0	3	0	72
	%	12.9	6.3	2.5	0	0.9	0	22.6
21-27	n	84	79	12	2	2	0	179
	%	26.3	24.8	3.8	0.6	0.6	0	56.1
28-39	n	37	23	4	0	1	1	66
	%	11.6	7.2	1.2	0	0.3	0.3	20.7
40+	n	2	0	0	0	0	0	2
	%	0.6	0	0	0	0	0	0.6
ALL	n	164	122	24	2	6	1	319
	%	51.4	38.2	7.5	0.6	1.9	0.3	100.0

* Data are frequencies and %s of the total sample and include HY subjects.

Table 6. Time in service data for males and females (frequency and % of total).*

MALES

Years in service: Category		0-3	4-6	7-9	10-15	16-20	21+	ALL
Enlisted	n	417	147	118	113	62	41	898
	%	27.6	9.7	7.8	7.5	4.1	2.7	75.3
Officer	n	16	8	5	7	132	110	278
	%	1.1	0.5	0.3	0.5	8.7	7.3	23.3
Warrant Officer	n	0	2	1	5	4	4	16
	%	0.0	0.1	0.1	0.3	0.3	0.3	1.4
								1192

FEMALES

Category		0-3	4-6	7-9	10-15	16-20	21+	ALL
Enlisted	n	179	73	19	16	1	1	289
	%	11.8	4.8	0.3	1.1	0.1	0.1	90.6
Officer	n	13	6	8	1	1	0	29
	%	0.9	0.4	0.5	0.1	0.1	0.0	9.1
Warrant Officer	n	0	1	0	0	0	0	1
	%	0.0	0.1	0.0	0.0	0.0	0.0	0.3
								319

*Data are frequencies and %'s of total sample, including HY subjects.

Table 7. Frequency of ranks for males and females.

MALES

VALUE LABEL	FREQUENCY
E1	31
E2	76
E3	134
E4	223
E5	163
E6	134
E7	71
E8	12
E9	4
SECOND LIEUTENANT	5
FIRST LIEUTENANT	4
CAPTAIN	12
MAJOR	14
LIEUTENANT COLONEL	5
COLONEL	158

FEMALES

VALUE LABEL	FREQUENCY
E1	2
E2	39
E3	52
E4	85
E5	52
E6	10
E7	3
SECOND LIEUTENANT	1
FIRST LIEUTENANT	8
CAPTAIN	10
MAJOR	7

non-existent.

Medical history questionnaires were administered to a) aid the examining physician as it served as a flag or probe to determine if the physical examination should be directed to a particular area of the body, b) screen out potential subjects who may have had health risks that would contraindicate their participation and c) to provide a general information base concerning the medical background of the test subjects. Results of the questions were summarized by categorizing the answers to the questions as follows: a) no or none, b) yes or yes-self, and c) yes-parents or siblings. Frequencies and percents of totals are given for 13 medical history questions relating to cardiovascular disease, asthma, medication, coffee consumption, injuries to the upper and lower body, as well as smoking histories. These data are presented for males and females in Table 8.

A questionnaire was administered to determine background information concerning the exercise habits of the volunteers for this study. The importance of these type of data as well as its limitations have been addressed previously by Kohl et al., (17) and others (23,24,24). Initially the data were summarized using a yes or no response categorization, i.e., did the respondent answer yes to any of the physical activities presented. If no response was indicated for any of the activities listed the person was considered not to participate in any exercise activity on a regular basis. Table 9 presents the results of this initial analysis. Data are reported by gender and age. Ninety-six percent of the total sample responded positively to the activity questionnaire.

The data were further analyzed to determine the frequency of participation (days per week) ranging from 0 (no participation) to 7 days per week. These

Table 8. Responses to the medical questionnaire data for males and females.

MALES

QUESTION	RESPONSE CATEGORY (1) NO/NONE	(2) YES/SELF	(3) YES/PARENTS OR SIBS
High Blood Pressure	719	42	403
Coronary Artery Disease	1013	5	144
Stroke	1008	3	165
Parents Smoke	259	922	
High Cholesterol	925	60	140
Asthma	1100	84	
Medication	1087	99	
Drink Coffee	556	632	
Injuries-Lower Body	1068	117	
Injuries-Upper Body	1088	102	
Smoker	448	525	
	(EX-SMOKER) 166	(PIPE SMOKER) 44	
	<1	1-2	2^+
Parents Smoke-Packs/day	253	500	56

FEMALES

QUESTION	RESPONSE CATEGORY (1) NO/NONE	(2) YES/SELF	(3) YES/PARENTS OR SIBS
High Blood Pressure	165	3	145
Coronary Artery Disease	275	12	23
Stroke	260	0	54
Parents Smoke	67	247	
High Cholesterol	246	2	54
Asthma	291	25	
Medication	243	75	
Drink Coffee	175	143	
Injuries-Lower Body	286	30	
Injuries-Upper Body	301	17	
Smoker	153	145	19
	(EX-SMOKER) 19		
Parents Smoke-Packs/day			
	<1	1-2	2^+
	88	128	11

Table 9. Exercise habits of males and females categorized by yes or no responses.*

AGE GROUP		MALE		FEMALE	
		YES	NO	YES	NO
17-20	n	164	2	69	3
	%	10.8	0.1	4.6	0.2
21-27	n	389	17	166	13
	%	25.7	1.1	11.0	0.8
28-39	n	337	11	61	5
	%	22.3	0.7	4.0	0.3
40+	n	266	8	2	0
	%	17.6	0.5	0.1	0.0
ALL	n	1156	38	298	21
	%	74.4	2.5	19.7	1.4

*Data resulting from an analysis of all soldiers who responded 'yes' to any kind of exercise.

Table 10. Frequency of participation (days per week) in exercise activities.

DAYS/WEEK	MALE*		FEMALE**	
	n	%*	n	%*
0	38	3.2	21	6.6
1	8	0.7	1	0.3
2	44	3.7	8	2.5
3	402	33.7	136	42.6
4	176	14.7	43	13.5
5	274	22.9	65	20.4
6	66	5.5	7	2.2
7	186	15.6	38	11.9

*This is not the % of the total sample, but is a % of all males.
**This is not the % of the total sample, but is a % of all females.

data are presented in Table 10.

The largest portion of the male sample reported that they exercised 3 days per week, followed by 5 days per week. A similar pattern was evidenced for the female subjects.

Data were reduced further by examining the types of activities and duration of participation as shown in Tables 11 and 12. It can be seen that for males the largest portion of the group participated in running activity followed by calisthenics and walk/hike. This pattern is the same for females.

Upon completion of all phases of testing, 1128 males and 271 females were chosen for inclusion in the final data analysis. Although data were collected on a total of 1513 soldiers, 114 of these subjects experienced sufficient difficulty with the underwater weighing process to preclude their inclusion in the primary database. Data from excluded subjects are presented in Table 13.

The difficulties experienced ranged from extreme discomfort in the water to just ordinary fear of the entire process; for example, several subjects were unable to physically put their face into the water. Generally speaking, extreme fear resulted in individuals who had prior negative experiences in water environments. Several subjects had had prior 'near drowning' experiences. A few subjects believed that the ability to swim was a pre-requisite for the test and it was difficult to convince them otherwise.

In respect to age, the third age group (28-39) had the greatest number of male subjects experiencing difficulty while the second age group (21-27) had the greatest number of female subjects experiencing difficulty.

Observing the data with reference to race, blacks had the greatest number of subjects experiencing difficulty for both males and females.

The age and physical characteristics of the remaining subjects are

Table 11. Exercise habits by activity for males (mean*SD).*

	n	Days/wk	Range	Mins/day	Range	Distance/day	Range
Walk/hike	486	4.2 2.0	1 - 7	57 86	0 - 720	2.793 3.401	2 - 20 mi
Cycle	132	2.7 1.7	1 - 7	44 39	0 - 240	6.636 6.659	0 - 38 mi
Swim	133	2.7 1.6	1 - 7	44 37	0 - 180	495.496 891.369	0 - 3520 yds
Run	1034	3.5 1.1	1 - 7	28 15	0 - 180	2.973 1.483	0 - 20 mi
Calisthenics	608	3.7 1.2	1 - 7	17 11	0 - 60		
Weight Lift	220	2.9 1.4	1 - 7	47 37	0 - 180		
Karate	28	4.0 1.8	2 - 7	81 34	15 - 120		
Tennis	162	2.4 1.5	1 - 7	72 34	0 - 240		
Baseball	146	2.5 1.1	1 - 7	76 34	0 - 240		
Basketball	179	2.8 1.6	1 - 7	93 59	0 - 360		
Football	8	2.3 1.0	1 - 4	37 34	0 - 90		
Soccer	4	2.2 0.9	1 - 3	80 31	50 - 120		
Aerobics	51	2.3 1.5	1 - 7	45 21	0 - 120		
Other	91	2.5 1.4	1 - 7	155 93	0 - 120		

*This table refers only to people who participated in each exercise, not the whole group.

Table 12. Exercise habits by activity for females (mean±SD).*

	n	Days/wk	Range	Mins/days	Range	Day	Range
Walk/hike	112	4.4 2.0	1 - 7	44 56	0 - 360	2.098 2.118	0 - 13 mi
Cycle	33	3.1 1.7	1 - 7	56 69	0 - 360	6.727 9.241	0 - 50 mi
Swim	34	2.6 1.2	1 - 7	46 44	0 - 180	374.242 744.039	0 - 3520 yds
Run	274	3.4 0.9	1 - 7	24 11	0 - 60	2.558 0.960	0 - 8 mi
Calis	160	3.5 0.9	1 - 7	18 11	0 - 60		
Weight Lift	25	2.6 1.1	1 - 5	38 22	15 - 120		
Karate	2	2.5 0.7	2 - 3	75 21	60 - 90		
Tennis	18	1.9 0.8	1 - 4	57 20	0 - 90		
Baseball	15	2.4 1.1	1 - 5	86 41	40 - 180		
Basketball	18	2.6 1.0	1 - 5	75 29	20 - 120		
Football	5	4.4 1.6	3 - 7	96 25	60 - 120		
Soccer	0		0		0		
Aerobics	62	2.5 1.5	1 - 7	41 16	0 - 90		
Other	9	3.6 1.8	1 - 7	86 90	0 - 300		

*This table refers only to people who participated in each exercise, not the whole group.

Table 13. Frequency and % of total of individuals (hydrophobics) experiencing difficulties with the underwater weighing process and excluded from the database*.

MALES

	W	B	H	AI/AN	API	Other	Total
17-20	1	2	1	0	0	0	4
	1.5%	3.0%	1.5%	0	0	0	6.1%
21-27	6	9	1	0	0	1	17
	9.1%	13.6%	1.5%	0	0	1.5%	25.8%
28-39	8	20	2	0	0	0	30
	12.1%	30.3%	30.0%	0	0	0	45.5%
40+	12	2	1	0	0	0	15
	18.2%	3.0%	1.5%	0	0	0	22.7%
ALL	27	33	5	0	0	1	66
	40.9%	50%	7.6%	0	0	1.5%	100%

FEMALES

	W	B	H	AI/AN	API	Other	Total
17-20	4	4	2	0	0	0	10
	8.3%	8.3%	4.2%				20.8%
21-27	8	13	3	0	0	0	24
	16.7%	27.1%	6.3%				50.0%
28-39	4	8	1	0	1	0	14
	8.3%	16.7%	1.2%		1.2%		29.2%
40+	0	0	0	0	0	0	0
ALL	16	25	6	0	1	0	48
	33.3%	52.1%	12.5%	0	2.1%	0	100%

*For data coding purposes these individuals are called HY data.

presented in Table 14. Comparisons of males and females indicated that males were more heterogeneous in age than females; our sample only included two women who were over 40 years old, whereas 274 males belonged to this age category. It was not surprising to find that males in our sample had considerably more time in service than the females. As expected, males were also taller, heavier and had a larger body mass index.

APPEARANCE, K RATINGS AND SOMATOTYPE

Mean scores for uniform and swimsuit ratings, K ratings and somatotype are summarized by gender, race and age in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 15. The ANCOVA showed that age was a significant ($p<.05$) covariate for average uniform rating, K rating, endomorphy, mesomorphy and ectomorphy. Age was not a significant ($p>.05$) covariate for the average swimsuit rating. Significant ($p<.05$) gender effects were found for average uniform rating, endomorphy and mesomorphy. Race was a significant ($p<.05$) factor for all variables except average uniform rating ($p=.149$). There were no gender by race interactions.

BODY COMPOSITION VARIABLES

Means for body composition variables summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 16.

The results of the ANCOVA showed that age was a significant ($p<.05$) covariate for all variables in this category, that is, residual lung volume, vital capacity, density, relative fat, lean body mass and fat mass.

Table 14. Age and physical characteristics of the sample excluding hydrophobics.

		AGE		HEIGHT		WEIGHT		BMI*		STC+	
GENDER	N	X	SD	X	SD	X	SD	X	SD	X	SD
MALE	1128	30.2	8.9	175.0	6.9	77.1	11.3	25.1	3.1	9.4	8.2
FEMALE	271	24.1	4.5	162.6	6.2	60.4	8.2	22.8	2.7	3.2	3.0

*BMI = Body Mass Index = Weight(kg)/Height^2(m).
+STC = Time in service.

Table 15. ANCOVA data for means of appearance and K ratings and somatotype variables summarized by gender and race.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE*
Uniform Rating[1]	males > females[2]	males: H > W > B females: H > W > B	NO
Swimsuit Rating	females > males	males: B > H > W[3] females: B > H > W[3]	NO
K Rating[1]	females > males	males: W > H > B[3] females: H > W > B[3]	NO
Endomorphy[1]	males > females[2]	males: H > W > B[3] females: H > W > B[3]	NO
Mesomorphy[1]	males > females[2]	males: B > H > W[3] females: H > B > W[3]	NO
Ectomorphy[1]	females > males	males: B > W > H[3] females: W > B > H[3]	NO

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.

Table 16. ANCOVA data for means of body composition variables summarized by gender and race.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE*
Residual Lung Vol.[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	NO
Vital Capacity[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	YES
Density[1]	males > females[2]	males: B > H > W[3] females: W > H > B[3]	YES
Body Fat[1]	females > males[2]	males: W > H > B[3] females: W > H > B[3]	YES
Fat Free Mass[1]	males > females[2]	males: B > W > H[3] females: B > W > H[3]	NO
Fat Mass[1]	females > males[2]	males: W > H > B[3] females: W > H > B[3]	YES

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.

Significant ($p<.05$) gender and race effects were found for all variables in this category. Significant ($p<.05$) interactions were present for all variables with the exception of residual lung volume and lean body mass.

CARDIOVASCULAR AND METABOLIC RESPONSES TO TREADMILL EXERCISE AT $\dot{V}O_2$ MAX

Means for cardiovascular and metabolic responses to treadmill exercise at $\dot{V}O_2$ max summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 17.

The results of the ANCOVA indicated that age was a significant ($p<.05$) covariate for 7 of the 9 variables included in this category. These variables are treadmill grade, carbon dioxide production, ventilatory equivalent, ventilation, respiratory quotient, relative oxygen uptake and heart rate. Age was not a significant ($p>.05$) covariate for treadmill speed or absolute oxygen uptake. Significant ($p<.05$) gender effects were found for all variables with the exception of ventilatory equivalent and respiratory quotient. Significant ($p<.05$) race effects were found for treadmill grade, ventilatory equivalent, respiratory quotient, carbon dioxide production, ventilation and heart rate. The only significant ($p<.05$) interaction between gender and race occurred for relative oxygen uptake.

ANTHROPOMETRIC VARIABLES

Height and Weight

Means for height and weight summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 18.

Table 17. ANCOVA data for means of cardiovasculer and metabolic responses to maximal treadmill running summarized by gender and race.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE*
Treadmill Speed	males > females[2]	males: B = H = W females: H > W > B	NO
Treadmill Grade[1]	males > females[2]	males: H > W > B[3] females: H > W > B[3]	NO
Ventilation[1]	males > females[2]	males: W > H = B[3] females: W = B > H[3]	NO
Carbon Dioxide Production[1]	males > females[2]	males: H = W > B[3] females: W = B > H[3]	NO
Absolute Oxygen Uptake	males > females[2]	males: W > B > H females: W > H > B	NO
Relative** Oxygen Uptake[1]	males > females[2]	males: B > H > W females: H > W > B	YES
Ventilatory Equivalent[1]	males = females	males: W > H > B[3] females: H = W > H[3]	NO
Respiratory Quotient[1]	males > females	males: H > W > B[3] females: H > W > B[3]	NO
Maximal Heart Rate[1]	males = females[2]	males: H > B > W[3] females: H > B > W[3]	NO

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.
** Relative to body weight

The results of the ANCOVA showed that age was a significant ($p<.05$) covariate for both variables. Significant ($p<.05$) gender and race effects were also found, however, the interaction of gender and race was not significant ($p>.05$) for either height or weight.

Skinfolds

Means for all skinfolds summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 18.

The results of the ANCOVA showed that age was a significant ($p<.05$) covariate for 10 of the 12 skinfolds, that is, chin, chest, subscapular, midaxillary, waist, suprailiac, abdomen, thigh, calf and biceps skinfolds. Age was not a significant ($p>.05$) covariate for the triceps or knee skinfolds. Significant ($p<.05$) gender differences were found for 9 of the 12 skinfolds; gender was not a significant ($p>.05$) factor for midaxillary, abdomen or knee skinfolds. Significant ($p<.05$) race differences were found in all skinfolds with the exception of the knee skinfold. The biceps skinfold revealed the only significant ($p<.05$) interaction.

Circumferences

Means for all circumference measurements summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 19.

The results of the ANCOVA showed that age was a significant ($p<.05$) covariate for all 15 circumference measures. Significant gender ($p<.05$)

Table 18. ANCOVA data for means of skinfolds, height and weight summarized by gender and race.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE
Height[1]	males > females[2]	males: W > B > H[3] females: W > B > H[3]	NO
Weight[1]	males > females[2]	males: W > B > H[3] females: W > B > H[3]	NO
Chin SF[1]	females > males[2]	males: W > H > B[3] females: W > H > B[3]	NO
Chest SF[1]	males > females[2]	males: W = H > B[3] females: H > W > B[3]	NO
Biceps SF[1]	females > males[2]	males: W > H > B[3] females: W > H = B[3]	YES
Triceps SF	females > males[2]	males: W > H > B[3] females: W > H > B[3]	NO
Subscapular SF[1]	males > females[2]	males: H > W > B[3] females: H > W > B[3]	NO
Midaxillary SF[1]	males > females	males: H > W > B[3] females: H > W > B[3]	NO
Waist SF[1]	males > females[2]	males: H > W > B[3] females: H > W > B[3]	NO
Abdomen SF[1]	males > females	males: W > H > B[3] females: W > H > B[3]	NO
Suprailiac SF[1]	males > females[2]	males: H > W > B[3] females: H > W > B[3]	NO
Thigh SF[1]	females > males[2]	males: W > H > B[3] females: W > H > B[3]	NO
Knee SF	females > males	males: H > W > B females: H > W > B	NO
Calf SF[1]	females > males[2]	males: W > H > B[3] females: W > H > B[3]	NO

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.

Table 19. ANCOVA data for means of circumferences summarized by gender and race.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE
Head C[1]	males > females[2]	males: W = B > H[3] females: B > W > H[3]	YES
Neck C[1]	males > females[2]	males: W > B > H females: B > H > W	NO
Biceps C[1]	males > females[2]	males: B > H > W[3] females: B > H > W[3]	YES
Flexed Biceps C[1]	males > females[2]	males: B > H > W[3] females: H > B > W[3]	YES
Shoulder C[1]	males > females[2]	males: B > W > H females: W > B > H	NO
Chest C[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	NO
Abdomen 1 C[1]	males > females[2]	males: W > H > B[3] females: H > W > B[3]	NO
Abdomen 2 C[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	NO
Hip C[1]	males > females[2]	males: W > H > B females: W > H > B	NO
Forearm C[1]	males > females[2]	males: B > W > H[3] females: B > W > H[3]	NO
Wrist C[1]	males > females[2]	males: W > B > H[3] females: W = B > H[3]	NO
Thigh C[1]	males > females	males: B > H > W[3] females: B > W > H[3]	NO
Knee C[1]	males > females[2]	males: W > B > H females: H > W > B	NO
Calf C[1]	males > females[2]	males: W > B > H[3] females: W > B > H[3]	NO
Ankle C[1]	males > females[2]	males: W > B > H[3] females: W > H > B[3]	NO

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.

differences were found for all circumferences with the exception of thigh circumference. Significant ($p<.05$) race differences were found for all but 4 circumferences. These were: shoulder, hip, knee and neck circumferences. Significant ($p<.05$) interactions were found for head, biceps and flexed biceps circumferences.

Diameters

Means for all diameter measurements summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 20.

The results of the ANCOVA showed that age was a significant ($p<.05$) covariate for all diameter measures. Significant ($p<.05$) differences between genders were also found for all diameters. Significant ($p<.05$) race differences were found for all diameters with the exception of the knee diameter. Significant ($p<.05$) interactions were found for biacromial, biiliac, bitrochanter and chest diameters.

INCREMENTAL DYNAMIC LIFT AND PHYSICAL FITNESS TEST VARIABLES

Incremental Dynamic Lift

Means for incremental dynamic lift summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 21.

The results of the ANCOVA indicated that age was not a significant ($p>.05$) covariate for this variable. Significant ($p<.05$) gender and race differences were apparent without a confounding significant interaction.

Table 20. ANCOVA data for means of diameters summarized by gender and race.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE
Biacromial D[1]	males > females[2]	males: W > B > H[3] females: B > W > H[3]	YES
Bideltoid D[1]	males > females[2]	males: W > B > H[3] females: W > H > B[3]	NO
Chest D[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	YES
Biiliac D[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	YES
Bitrochanter D[1]	males > females[2]	males: W > H > B[3] females: W > H > B[3]	YES
Elbow D[1]	males > females[2]	males: W > B > H[3] females: W = B = H[3]	NO
Wrist D[1]	males > females[2]	males: W > B = H[3] females: W = B > H[3]	NO
Knee D[1]	males > females[2]	males: B > H = W females: H > W > B	NO
Ankle D[1]	males > females[2]	males: W = B > H[3] females: W = H > B[3]	NO

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.

Table 21. ANCOVA data for means of incremental dynamic lift and fitness test variables.

VARIABLE	GENDER EFFECTS	RACE EFFECTS	GENDER X RACE
Incremental Dynamic Lift	males > females[2]	males: B > W > H[3] females: W > B > H[3]	NO
Sit-Ups[1]	females > males[2]	males: B > H > W females: H > W > B	NO
Push-Ups[1]	males > females[2]	males: B > H > W[3] females: H > W > B[3]	YES
Two Mile Run[1]	females > males[2]	males: W > B > H females: W > H > B	NO
Fitness Score[1]	females > males[2]	males: B > H > W females: H > B > W	NO

* Gender by race interaction.
[1] Significant age covariate.
[2] Significant gender effect.
[3] Significant race effect.

Physical Fitness Test Variables

Means for fitness test variables summarized by gender, race and age are presented in Appendix G. Correlation coefficients are reported separately for males and females in Appendix H. ANCOVA tables are presented in Appendix I. The results of the ANCOVA for these variables are summarized in Table 21.

The results of the ANCOVA indicated that age was a significant ($p<.05$) covariate for all of the variables in this category, that is, sit-ups, push-ups, two mile run time and APFT score. Significant ($p<.05$) gender differences were found for all variables, however, significant race effects were found only for push-ups. This finding was confounded by a significant ($p<.05$) gender by race interaction.

DISCUSSION

This report presents body composition, appearance and physical performance variables by gender, race and age for a large, heterogeneous group of active duty Army personnel. It is unique because it involves a comprehensive set of demographic and physiological measurements for the subjects. Laboratory measurements of appearance were made through photographic assessment and rating by military personnel; body composition, through anthropometric assessment and underwater weighing; and performance, through direct assessment of $\dot{V}O_2max$, strength and annotation of APFT results. In addition, data were also collected describing smoking and medical histories, leisure time activity, and military demographic data for the sample. Although random sampling techniques were not utilized, most of the subjects in the present sample were stationed at Fort Hood, Texas which is the largest combat arms

post in the continental United States and therefore, provided a reasonable somewhat of a cross section of military personnel with the exception of women over age 35.

This data base will serve as a reference source for many important issues concerning the relationship between military appearance, body composition and physical performance in active duty military personnel. It has thus far been used to validate the height-weight and body fat standards as well as to develop a new method for the estimation of relative body fat for the Army weight control program (Fitzgerald et al., to be published). Health aspects include the relationship between subcutaneous fat patterning and resting blood pressure levels.

Another important application of this type of data base is it's ability to serve as a cross-validation source for other investigators, in both military and civilian sectors, who are interested in testing regression equations developed to predict body composition parameters. Lohman (18) has indicated that testing the generalizability of a prediction equation, through cross-validation techniques, is a crucial aspect of regression equation develcpment. This data set has already been used to cross-validate the circumference techniques used by the US Navy for the estimation of relative body fat in Naval personnel (11,12).

Another unique aspect of this data set is information regarding difficulty with the underwater weighing technique. To be successful, this technique requires the cooperation of the test subject. It has been our experience that initially, most individuals have some degree of difficulty with the technique; however, after several practice trials, they are fully cooperative. Some subjects however, are never able to fully cooperate. This results in an

overestimation of relative fat and underestimation of lean body mass. Although this phenomenon is well known to anyone who works with underwater weighing, (and can certainly produce spurious results), it has not been previously reported in the literature.

Further discussion of the detailed findings contained in this study will be presented in subsequent reports.

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Appendix A

Tasking Letter

DEPARTMENT OF THE ARMY
OFFICE OF THE SURGEON GENERAL
WASHINGTON, DC 20310

REPLY TO ATTENTION OF

DASG-PSP

7 MAR 1983

SUBJECT: Requirement for Validation Studies, Army Body Fat Standards

Commander
US Army Medical Research and
Development Command
Fort Detrick, MD 21701

1. Reference AR 600-9, The Army Weight Control Program.

2. The above cited reference assigns responsibility to the Army Medical Department to recommend body fat standards and to perform body fat measurements.

3. The published body fat standards are based on empirical data and reasonable medical judgement. These standards need rigorous review and methodical study over the next few years to determine the appropriateness of the current body fat standards and the methods used to measure body fat.

4. Accordingly, request that the Medical Research and Development Command design and conduct a study to accomplish the following objectives:

a. To measure and describe the distribution of individual body weight and body fat among a typical military sample population.

b. To measure and describe the relationship between various body fat levels and physical performance parameters such as Army Physical Readiness Test (APRT) scores and physiologic indicators of aerobic fitness.

c. To measure and describe the relationship between varying body fat levels and appearance of soldiers.

d. To develop a data base for military personnel by age, sex, race, weight, height, and body fat of body skin folds, body circumferences, and other anthropometric measurements as well as hydrostatically determined body fat values.

e. To determine the degree of correlation between body fat as measured by the current Army method (caliper) compared with hydrostatic weighing.

DASG-PSP
SUBJECT: Requirement for Validation Studies, Army Body Fat Standards

f. To develop an improved predictive equation based on skin folds, body circumferences, and/or other anthropometric measurements which will allow more accurate estimates of body fat.

5. This study should be concluded by 1 July 1985.

6. Points of Contact for this request within the Directorate are COL George E. T. Stebbing and LTC Frederick J. Erdtmann, Autovon 227-1874.

FOR THE SURGEON GENERAL:

QUINN H. BECKER
Major General, MC
Deputy Surgeon General

Appendix B

Instructions to Raters and Explanation of K Rating Scale

INSTRUCTIONS TO RATERS

Introduction

You are being asked to rate slide photographs of soldiers in the US Army. As you heard in the briefing, we are responsible for determining the relationship between appearance and performance. The results obtained from this evaluation session will determine the 'appearance' of our data set. We are interested in your own personal standards for what you feel is acceptable military appearance.

During the first two and one half days, you will view slide photographs of soldiers dressed in their Class A uniform. They will have a black mask on to protect their anonymity. Please evaluate how they look in a uniform, not how their uniform looks on them. I know that this is a fine difference, but in some of the photos we were not able to make the uniform look perfect. Each soldier was asked to perform a set of standard anthropometric poses. Each of these poses will be shown to you simultaneously. You will be given 10-15 seconds to evaluate each set of three photographs. You will be given a rating sheet for each set of three photographs (see attached).

During the second half of the week you will be asked to perform the same rating on slide photographs of soldiers dressed (for the most part) in dark colored swim suits. You will also rate the soldiers using the 'K' scale.

This will not be an easy task as there is much work to be done in a short period of time. Please do your best and feel free to ask questions at any time.

The Rating Sheet

Please notice that the sheet is broken into 8 parts, all on one page. When you are rating the Class A pictures, you will only concern yourself with the first 7 parts. The 'K' scale is only to be used for the bathing suit (nude) photos.

Part 1

Date of Rating: is simply the day you are doing the rating.

Part 2

Rater #: Each of you will be assigned a rater number. Please use this instead of your name.

Part 3

Subject #: Each photo/slide will have a 4 or 5 digit number in the lower left hand corner. Please copy this into the space provided. If the subject number is only four digits, please place a 0 in the first space on the rating sheet.

Part 4

Subject Gender: 1 = male, 2 = female.

Part 5

Rating Scale Being Used: 1 = Uniform: to be used for the Class A rating; 2 = nude: to be used when you are rating the bathing suit photo; 3 = 'K': to be used when you are rating the bathing suit photo.

Part 6

Uniform/Nude Rating Value Given: This is a 5 point scale where 1 = a POOR rating and 5 = an EXCELLENT rating. Again you are evaluating the military appearance of the soldier in the Class A uniform, according to your own personal standards.

When you are using this scale in conjunction with the bathing suit/nude photo you are rating the appearance of the soldier according to your own personal standards.

Part 7

Acceptability: This is a simple go or no go response which states whether or not you think this person has or does not have acceptable military appearance. This scale is not as sensitive as the 5 point scale. Please use this for both the Class A and nude/swimsuit photos.

Part 8

K Rating Scale: This is a published scale which allows a reviewer to estimate body composition in humans. This will be used for the bathing suit/nude photos only.

Explanation of K Rating Scale

Fat Score 1 (no visible fat) This person has no fat visible as viewed from these photos.

Fat Score 2 (very thin) Muscle attachments and blood vessels are clearly seen below the skin surface; a slight amount of fat tissue can be deposited in the extreme lower back, inner thigh area and immediately below the buttock. Abdominal muscling is clearly visible, facial lines are angular and the neck appears to be free of fat deposits.

Fat Score 3 (thin) Locations of muscle attachments are moderately visible. Blood vessels can be seen below the skin, although the are not clearly visible. Abdominal muscles can be seen to some degree although a slight layer of fat is now deposited in the abdominal area. Facial lines are still fairly angular and free of fat.

Fat Score 4 (moderate) Location of muscle attachments are not clearly visible. Body lines in general are somewhat smooth in appearance. Abdominal muscles are not clearly visible due to fat tissue covering; however, the stomach does not protrude over the waistline. Facial characteristics are probably best described as being smooth and more circular in appearance than the leaner subjects.

Fat Score 5 (fat) Body lines are smooth but are now becoming rounded. Abdominal muscles are not visible due to fat deposits. Stomach protrudes over the waistline from about 0-3.5 cm. Fat deposits on torso sides protrude over the waistline slightly. Facial lines are rounded.

Fat Score 6 (very fat) No muscling is clearly visible due to fat deposits. Stomach protrudes over the waistline at least 3.5-4.0 cm and there are fat deposits protruding over the waistline on the sides. Facial lines are very rounded and the area under the jaw and around the neck have substantial amounts of fat deposited.

Fat Score 7 (obese)

Appendix C

Rater Data Sheet

USARIEM
Body Composition Study

1. Date of Rating: D (1 2) M (3 4) Y (5 6)

2. Rater #: (7 8)

3. Subject #: (9 10 11 12 13)

4. Subject Gender:
   1 = Male
   2 = Female
   (14)

5. Rating Scale Being Used:
   1 = Uniform
   2 = Nude
   3 = 'K'
   (15)

6. Uniform/Nude Rating Value Given:
   1 = Poor
   2 = Fair
   3 = Good
   4 = Very Good
   5 = Excellent
   (16)

7. Acceptability:
   1 = Acceptable
   2 = Unacceptable
   (17)

8. 'K' Rating Scale:
   1 = No Visible Fat
   2 = Very Thin
   3 = Thin
   4 = Moderate
   5 = Fat
   6 = Very Fat
   7 = Obese
   (18)

Appendix D

Specific Description and Anatomic Location of Skinfold, Circumference and Diameter Sites

Anatomical locations for skinfold, circumference, and diameter measurements according to the methodology of Behnke and Wilmore (2).

SKINFOLDS

Chin: A vertical fold under the mandible which runs between the chin and the neck.

Chest: An oblique fold over the lateral border of the pectoralis major; just medial to the axilla, running diagonally between the shoulder and the opposite hip.

Subscapular: An oblique fold under the inferior angle of the scapula running parallel to the axillary border.

Triceps: A vertical fold midway between the acromion and olecranon processes on the posterior aspect of the arm, the arm held vertically, with the fold running parallel to the length of the arm.

Midaxillary: A vertical fold on the midaxillary line approximately at the level of the fifth rib.

Waist: A vertical fold in the midaxillary line, midway between the twelfth rib and the iliac crest.

Suprailiac: A vertical fold on the crest of the ilium at the midaxillary line.

Abdominal: A horizontal fold adjacent to the umbilicus.

Thigh: A vertical fold on the anterior aspect of the thigh midway between the hip and the knee joints.

Knee: A vertical fold at the midpoint of the patella.

Calf: A vertical fold on the medial calf at the level of the maximal circumference.

Bicep: A vertical fold taken half way between the top of the axillary fold and the antecubital fold.

CIRCUMFERENCES

Head: Taken just superior to the eyebrow line and encompassing the occipital protuberance.

Neck: Taken just inferior to the larynx.

Shoulders: Taken laterally at the maximal protrusion of the deltoid muscles and anteriorly at the articular prominance of the sternum and the second rib.

Chest: Taken at the level of the xiphoid.

Abdomen 1: Taken laterally, midway between the lowest lateral portion of the rib cage and the oliac crest, and anteriorly, midway between the xiphoid process of the sternum and the umbilicus. This level is the natural waist and is readily identified as the level of the minimal abdominal width when the side profiles are slightly concave.

Abdomen 2: From a lateral perspective it is at the level of the iliac crests, and anteriorly at the umbilicus.

Hips: From an anterior perspective, this measurement is located at the level of the symphysis pubis, and posteriorly at the maximal protrusion of the gluteal muscles.

Thigh: Taken midway between the lateral head of the greater trochanter and the tibia.

Knee: Taken at the mid-patellar level, slightly flexed with the weight transferred to the opposite leg.

Calf: Taken at the maximal girth.

Ankle: Taken at the minimal girth, superior to the malleoli.

Biceps Flexed: Taken at the maximal girth of the mid-arm when flexed to the greatest angle with the underlying muscles fully contracted.

Biceps Extended: Taken a the maximal girth of the mid-arm when the elbow is locked in maximal extension.

Forearm: Taken at the maximal girth with the elbow extended and the hand supinated.

Wrist: The minimal girth just distal to the styloid process of the radius and the ulna.

DIAMETERS

Biacromial: The distance between the most lateral projections of the acromial processes with the elbows next to the body and the hands resting on the thighs.

Bideltoid: The distance between the outermost protrusions of the shoulder with the anthropometer making only light contact with the skin.

Chest Width: Taken with the arms abducted slightly for placement of the anthropometer at the level of the fifth to sixth ribs (nipple line); arms adducted back to the side of the body for the measurement.

Biiliac: taken as the distance between the most lateral projections of the iliac crest.

Bitrochanteric: Taken as the distance between the most lateral projections of the greater trochanters.

Knee: Distance between the outermost projections of the tibial condyles.

Ankle: Taken as the distance between the malleoli with the anthropometer pointed upward at a 45^0 angle.

Elbow: Taken as the distance between the condyles of the humerus with the elbow flexed and the hand supinated.

Wrist: Taken as the distance between the styloid processes of the radius and ulna.

Appendix E

Career Management Field/Branch

CAREER MANAGEMENT FIELD/BRANCH

VALUE	FREQUENCY	PERCENT	VALUE	FREQUENCY	PERCENT
01	95	06	19	06	0
02	98	07	20	0	0
03	135	09	21	0	0
04	17	01	22	0	0
05	66	04	23	0	0
06	141	09	24	0	0
07	138	09	25	02	0
08	102	07	26	0	0
09	86	06	27	0	0
10	143	10	28	01	0
11	0	0	29	0	0
12	201	13	30	01	0
13	53	04	31	50	3
14	45	03	32	0	0
15	05	0	33	03	0
16	28	02			
17	03	0			
18	75	05			

00 CSM
01 Ordnance (ORD)
02 Medical (MED)
03 Infantry (INF)
04 Finance (FIN)
05 Engineer (CE)
06 Armor (ARM)
07 Field Artillary (FA)
08 Aviation (AVN)
09 [illegible]
10 Signal (SIG)
13 Mil Intell. (MI)
14 Mil Police (MP)
15 Chaplin (CHP)
16 Chemical (CM)
17 Legal (JAG)
18 Transporation Corp (TC)
25 Cook (CK)
30 CE Operator
31 Maintenance (MT)
32 Recruiter (RC)
33 Food Service (FS)
34 Trng Development (TD)

Appendix F

MOS Classifications

PRIMARY MOS CATEGORIES
MALES

VALUE LABEL	VALUE	FREQUENCY
E/WSIGINT EMITTER ID/LOC	504	1
SIGNAL SECURITY SPECIALIST	507	1
E/WSIGINT/MORSE INTERCEPTOR	508	3
INFANTRYMAN	1102	16
INDIRECTFIRE INFANTRYMAN	1103	23
COMBAT ENGINEER	1202	14
ATOMIC DEMOL MUNITION SP	1205	4
ENGINEERTRACKEDVEHICLE CREW	1206	3
CANNON CREW MEMBER	1302	28
TACFIRE OPERATIONS SP	1303	1
CANNONFIRE DIRECTION SP	1305	10
FIRE SUPPORT SP	1306	18
FA FIREFINDERRADAR OPERATOR	1318	3
CANNON MISSLE SENIOR SGT	1325	2
DEFENSE ACQ RADAR OPERATOR	1610	1
ADA CHAPARRAL MISSLE CREW	1616	8
ADA SHORTRANGE GUNNERY CREW	1618	2
MANPADS CREWMEMBER	1619	3
FA RADAR CREWMEMBER	1702	3
FA TARGET ACQ SP	1703	4
GROUNDSURVEILLANCERADARCREW	1711	1
CAVALRY SCOUT	1904	16
M48-60 ARMOR CREWMAN	1905	11
M1 ABRAMS ARMOR CREWMAN	1911	73
AR SENIOR SGT	1926	1
CHAPARRAL SYSTEM MECHANIC	2414	2
AER E/W DEFENSEEQUIP REP	2611	1
TACTICAL MICROWAVE SYS REP	2612	1
TACTICAL SATELLITE SYS REP	2617	9
TOW/DRAGON REP	2705	3
CHAPARRAL/REDEYE REP	2707	2
FORWARDAREA ALERT RADAR REP	2714	3
SINGLE CHANNEL RADIO OPR	3103	5
FIELD RADIO REP	3105	3
TELETYPEWRITER REP	3110	4
COMBAT SIGNALER	3111	3
MULTI CH COMM EQUIP OPR	3113	12
TACTICAL CIRCUIT CONTROLLER	3114	7
FIELD GEN COMSEC REP	3119	1
TACTICAL COMM SYS OPR/MECH	3122	9
COMM ELEC OPERATIONS CHIEF	3126	5
COMM ELEC MAINT CHIEF	3226	1
DAS3 COMPUTER REP	3403	2
FA COMPUTER REP	3425	2
ADP MAINT SUPER	3426	1
AUTO TEST EQUIP REP	3503	1
SPECIAL ELEC DEVICES REP	3505	2

AVIONIC MECH	3511	2
AVIONIC EQUIP MAINT SUPER	3516	1
WIRE SYS INSTALLER	3603	15
TRANS ELEC SWITCHING SYS REP	3612	1
WIRE SYS OPR	3613	4
FIRE CONTROL INSTRUMENT REP	4103	1
AUDIO-VISUAL EQUIP REP	4105	1
OPTICAL LAB SP	4205	1
FABRIC REPAIR SPEC	4313	1
METAL WORKER	4402	1
MACHINIST	4405	1
SELFPROPELLED FA TURRET MECH	4504	1
TANK TURRET REP	4511	3
M60A1/A3 TANK TURRET MECH	4514	1
BRADLEY SYS TURRET MECH	4520	1
ARM/FIRE CONTROL MAINT SUPER	4526	1
CARPENTRY/MASONRY SP	5102	1
STRUCTURE SP	5103	1
CONSTRUCTION ENG SUPER	5108	2
PLUMBER	5111	2
WATER TREATMENT SP	5114	2
INTERIOR ELECTRICIAN	5118	2
UTILITIES EQUIP REP	5203	3
POWER GEN EQIUP REP	5204	2
TRANSMISSION & DIST SP	5207	1
SMOKE OPERATIONS SP	5403	3
NBC SP	5405	6
AMMUNITION SP	5502	4
LAUNDRY & BATH SP	5705	1
GRAVES REGISTRATION SP	5706	1
CONSTRUCTION EQUIP REP	6202	5
CRANE OPR	6206	4
CONCRETE & ASPHALT EQUIP OPR	6208	1
LIGHT WHEEL VEHICLE MECH	6302	33
SELF PROP FA SYS MECH	6304	3
M1 ABRAMS TANK SYS MECH	6305	6
FUEL & ELECT SYS REP	6307	2
TRACK VEHICLE REP	6308	9
QM & CHEM EQUIP REPAIR	6310	4
M1 TANK SYS MECH	6314	1
HEAVY WHEEL VEHICLE MECH	6319	1
BRADLEY FIGHT VEH SYS MECH	6320	1
WHEEL VEHICLE REP	6323	5
TRACK VEH MECH	6325	2
MECH MAINT SUPER	6326	1
MOTOR TRANSPORT OPR	6403	31
TANK CREW MEMBER	6510	1
OBSERVATION AIRPLANE REP	6708	2
UTILITY HELICOPTER REP	6714	9
TACTICAL TRANS HELICOP REP	6720	1
MEDIUM HELICOPTER REP	6721	3
OBSER SCOUT HELICOP REP	6722	8

HEAVY LIFT HELICOP REP	6724	1
AH1 ATTACK HELICOP REP	6725	12
AIRCRAFT MAINT SENIOR SGT	6726	1
AIRCRAFT POWERPLANT REP	6802	2
AIRCRAFT ELECTRICIAN	6806	2
AIRCRAFT STRUCTURAL REP	6807	4
AIRCRAFT FIRE CONTROL REP	6810	3
AIRCRAFT WEAPON SYS REP	6813	2
ADMIN SP	7112	6
CHAPEL ACTIVITIES SP	7113	1
TRAFFIC MGT COORDINATOR	7114	1
COMBAT TELECOMM CTR OPR	7205	21
FINANCE SP	7303	3
COMPUTER/MACHINE OPR	7404	1
PERSONNEL ADMIN SP	7502	4
PERSONNEL MGT SP	7503	3
PERSONNEL RECORDS SP	7504	3
PERS INFO SYS MGT SP	7506	3
PERSONNEL SGT	7526	2
EQUIP RECORDS & PARTS SP	7603	6
MEDICAL SUPPLY SP	7610	9
MATERIAL CONTROL & ACCT SP	7616	12
MATERIAL STOR & HANDLING SP	7622	12
PETROLEUM SUPPLY SP	7623	8
SUBSISITENCE SUPPLY SP	7624	1
UNIT SUPPLY SP	7625	22
SENIOR SUPPLY SGT	7626	2
CONSTRUCTION SURVEYOR	8202	1
FA SUPER	8203	8
STILL PHOTO SP	8402	1
PUBLIC AFFAIRS/AV CHIEF	8426	1
MEDICAL SP	9101	6
MEDICAL SP NCO	9102	25
PRACTICAL NURSE	9103	1
OPERATING RM SP	9104	2
PHARMACY SP	9117	1
MEDICAL LAB SP	9202	1
PETROLEUM LAB SP	9203	1
FOOD SERVICE SP	9402	3
MILITARY POLICE	9502	26
CORRECTIONS NCO	9503	5
INTELLIGENCE ANALYST	9602	4
IMAGERY ANALYST	9604	1
COUNTERINTELLIGENCE AGENT	9702	1
E/W SIGNAL INT ANALYST	9803	5
E/W SIG INT VOICE INT	9807	1
E/W SIG INT NONCOM INTCEP	9810	1

PRIMARY MOS CATEGORIES
FEMALES

VALUE LABEL	VALUE	FREQUENCY
SIGNAL SECURITY SP	507	1
E/W SIGINT MORSE INTERCEPTOR	508	1
FA FIREFINDER RADAR OPR	1318	1
FA RADAR CREWMEMBER	1702	2
FA TARGET ACQUISITION SP	1703	2
WEAPONS SUPPORT RADAR REP	2602	1
TACTICAL SATELLITE SYS REP	2617	2
CHAPARRAL/REDEYE REP	2707	1
SINGLE CHANNEL RADIO OPR	3103	3
FIELD RADIO REP	3105	2
TELETYPEWRITER REP	3110	2
COMBAT SIGNALER	3111	1
MULTI CH COMM EQUIP OPR	3113	1
COMM ELEC OPR CHIEF	3126	1
WIRE SYS INSTALLER	3603	4
FIRE CONTROL INSTRUMENT REP	4103	1
METAL WORKER	4402	1
WATER TREATMENT SP	5114	3
INTERIOR ELECTRICIAN	5118	1
UTILITIES EQUIP REP	5203	1
POWER GEN EQUIP REP	5204	2
SMOKE OPERATIONS SP	5403	1
NBC SP	5405	8
AMMUNITION SP	5502	3
CONSTRUCTION EQUIP REP	6202	3
LIGHT WHEEL VEHICLE MECH	6302	9
FUEL & ELEC SYS REP	6307	1
TRACK VEHICLE REP	6308	3
QM & CHEM EQUIP REP	6310	5
HEAVY WHEEL VEHICLE MECH	6319	1
MOTOR TRANS OPR	6403	14
AH1 ATTACK HELICOP TECH INSP	6625	1
OBSER SCOUT HELICOP REP	6722	1
AIRCRAFT POWERPLANT REP	6802	1
AIRCRAFT ELECTRICIAN	6806	1
PATIENT ADMIN SP	7107	1
ADMIN SP	7112	15
CHAPEL ACTIVITIES SP	7113	1
TRAFFIC MGT COORDINATOR	7114	8
COMBAT TELECOM CTR OPR	7205	8
ADT CTR OPR	7207	1
FINANCE SP	7303	3
ACCOUNTING SP	7304	2
COMPUTER/MACHINE OPR	7404	1
PROGRAMMER ANALYST	7406	1
PERSONNEL ADMIN SP	7502	2
PERSONNEL MGT SP	7503	2

PERSONNEL RECORDS SP	7504	6
PERSONNEL ACTION SP	7505	2
PERSONNEL SGT	7526	1
EQUIP RECORDS & PARTS SP	7603	2
MEDICAL SUPPLY SP	7610	4
MATERIAL CONTROL & ACCT SP	7616	13
MATERIAL STOR & HANDL SP	7622	10
PETROLEUM SUPPLY SP	7623	3
SUBSISTENCE SUPPLY SP	7624	1
UNIT SUPPLY SP	7625	14
PHOTOLITHOGRAPHER	8306	1
MEDICAL SP	9101	4
MEDICAL SP NCO	9102	11
PRACTICAL NURSE	9103	1
OPERATING RM SP	9104	2
ENVIRON HEALTH SP	9119	2
MEDICAL LAB SP	9202	3
FOOD SERVICE SP	9402	4
MILITARY POLICE	9502	1
SPECIAL AGENT	9504	2
INTELLIGENCE ANALYST	9602	1
E/W SIGNAL INT ANALYST	9803	1
E/W SIG INT VOICE INT	9807	3
E/W SIG INT NONCOM INTCEP	9810	1

Appendix G

Descriptive Statistics for all Data Summarized by Gender, Race and Age

CHIN SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	5.264	5.910	7.480	8.875	6.939
STD.DEV.	1.984	2.276	3.163	2.954	2.978
MAXIMUM	14.800	18.800	21.200	20.300	21.200
MINIMUM	2.700	2.200	2.200	4.100	2.200
CASES INCL.	162	389	318	258	1127
WHITE MALES:					
MEAN	5.773	6.516	8.320	9.078	7.668
STD.DEV.	2.128	2.423	3.101	2.990	3.031
MAXIMUM	14.800	18.800	21.200	20.300	21.200
MINIMUM	2.900	2.700	3.400	4.100	2.700
CASES INCL.	101	203	166	225	695
BLACK MALES:					
MEAN	4.205	4.638	5.268	6.293	4.851
STD.DEV.	0.999	1.252	1.890	1.798	1.549
MAXIMUM	8.100	10.000	10.100	10.100	10.100
MINIMUM	3.000	2.200	2.200	4.300	2.200
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	4.881	6.602	8.302	9.120	7.320
STD.DEV.	2.008	2.222	3.332	2.606	3.011
MAXIMUM	10.500	12.300	18.000	13.200	18.000
MINIMUM	2.700	3.200	3.300	4.200	2.700
CASES INCL.	16	50	58	10	134
ALL FEMALES:					
MEAN	8.276	6.621	9.094	10.800	7.505
STD.DEV.	3.085	2.454	3.421	5.233	3.008
MAXIMUM	17.900	16.300	17.300	14.500	17.900
MINIMUM	2.400	3.000	3.000	7.100	2.400
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	9.043	7.696	9.982	10.800	8.584
STD.DEV.	2.500	2.484	2.893	5.233	2.766
MAXIMUM	16.000	16.300	17.300	14.500	17.300
MINIMUM	4.400	4.000	4.700	7.100	4.000
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	5.819	5.238	7.260	0.000	5.646
STD.DEV.	1.987	1.649	3.744	0.000	2.242
MAXIMUM	9.300	10.600	17.000	0.000	17.000
MINIMUM	2.400	3.000	3.000	0.000	2.400
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	9.533	7.389	6.500	0.000	7.956
STD.DEV.	3.354	2.164	0.300	0.000	2.635
MAXIMUM	13.500	10.800	6.800	0.000	13.500
MINIMUM	4.300	4.200	6.200	0.000	4.200
CASES INCL.	6	9	3	0	18

CHEST SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	8.660	10.196	15.221	17.613	13.091
STD.DEV.	4.910	6.064	8.744	7.816	7.954
MAXIMUM	31.400	39.800	40.400	40.000	40.400
MINIMUM	3.800	3.000	2.500	4.600	2.500
CASES INCL.	162	389	318	258	1127
WHITE MALES:					
MEAN	9.377	11.194	17.111	17.656	14.435
STD.DEV.	5.414	6.438	8.914	7.632	8.115
MAXIMUM	31.400	39.800	40.400	40.000	40.400
MINIMUM	3.800	3.900	4.000	4.600	3.800
CASES INCL.	101	203	166	225	695
BLACK MALES:					
MEAN	6.822	7.528	11.016	14.653	8.860
STD.DEV.	2.645	3.718	7.038	8.874	5.609
MAXIMUM	14.000	24.800	40.000	40.000	40.000
MINIMUM	3.900	3.000	2.900	5.900	2.900
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	9.000	12.802	16.195	21.140	14.439
STD.DEV.	5.030	7.098	8.813	7.126	8.211
MAXIMUM	24.500	32.500	40.000	36.600	40.000
MINIMUM	4.900	4.500	3.400	9.800	3.400
CASES INCL.	16	50	58	10	134
ALL FEMALES:					
MEAN	10.518	11.269	13.573	19.450	11.600
STD.DEV.	5.724	5.843	6.513	17.748	6.131
MAXIMUM	37.400	31.200	32.400	32.000	37.400
MINIMUM	3.800	2.900	3.600	6.900	2.900
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	11.081	11.542	14.558	19.450	12.206
STD.DEV.	6.225	5.764	6.264	17.748	6.295
MAXIMUM	37.400	31.200	32.400	32.000	37.400
MINIMUM	3.800	4.000	5.200	6.900	3.800
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	8.844	10.111	12.387	0.000	10.254
STD.DEV.	3.750	5.182	7.427	0.000	5.429
MAXIMUM	16.300	27.400	27.300	0.000	27.400
MINIMUM	4.000	2.900	3.600	0.000	2.900
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	10.667	15.311	8.567	0.000	12.639
STD.DEV.	6.269	7.787	1.882	0.000	6.971
MAXIMUM	19.900	27.800	9.800	0.000	27.800
MINIMUM	4.200	3.600	6.400	0.000	3.600
CASES INCL.	6	9	3	0	18

BICEP SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	5.042	5.193	6.040	6.132	5.625
STD.DEV.	1.696	2.204	2.807	2.133	2.359
MAXIMUM	14.300	20.600	25.000	15.700	25.000
MINIMUM	2.800	2.400	2.000	2.300	2.000
CASES INCL	162	388	318	258	1126
WHITE MALES:					
MEAN	5.201	5.443	6.410	6.168	5.874
STD.DEV.	1.818	2.560	2.671	2.146	2.404
MAXIMUM	14.300	20.600	16.100	15.700	20.600
MINIMUM	3.000	2.400	2.400	2.300	2.300
CASES INCL	101	202	166	225	694
BLACK MALES:					
MEAN	4.880	4.653	5.375	5.907	4.976
STD.DEV.	1.602	1.539	2.458	2.416	1.945
MAXIMUM	9.800	12.000	15.300	13.100	15.300
MINIMUM	3.200	2.600	2.600	4.000	2.600
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	4.688	5.518	6.019	6.070	5.677
STD.DEV.	1.017	1.872	3.410	1.941	2.614
MAXIMUM	6.700	11.200	25.000	8.300	25.000
MINIMUM	3.000	3.200	2.500	3.000	2.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	7.897	7.038	8.763	14.300	7.619
STD.DEV.	3.583	3.151	4.288	12.587	3.663
MAXIMUM	25.600	21.100	19.500	23.200	25.600
MINIMUM	2.900	3.100	2.400	5.400	2.400
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	8.330	7.989	9.094	14.300	8.406
STD.DEV.	3.826	3.379	4.044	12.587	3.836
MAXIMUM	25.600	17.700	19.200	23.200	25.600
MINIMUM	3.100	3.200	3.400	5.400	3.100
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	6.944	6.091	7.953	0.000	6.520
STD.DEV.	2.884	2.661	4.677	0.000	3.124
MAXIMUM	12.700	21.100	19.500	0.000	21.100
MINIMUM	2.900	3.200	2.400	0.000	2.400
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	7.367	6.078	6.367	0.000	6.556
STD.DEV.	3.454	1.738	1.750	0.000	2.377
MAXIMUM	13.100	8.700	8.100	0.000	13.100
MINIMUM	3.800	3.100	4.600	0.000	3.100
CASES INCL	6	9	3	0	18

TRICEP SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	10.675	10.503	11.136	11.687	10.977
STD.DEV.	3.834	4.439	4.692	3.604	4.274
MAXIMUM	25.600	31.100	29.200	27.500	31.100
MINIMUM	5.000	3.900	3.200	4.900	3.200
CASES INCL.	162	389	318	258	1127
WHITE MALES:					
MEAN	11.020	10.928	11.784	11.732	11.406
STD.DEV.	3.713	4.207	4.567	3.353	3.985
MAXIMUM	21.400	31.100	28.900	21.800	31.100
MINIMUM	5.000	4.000	4.600	5.000	4.000
CASES INCL.	101	203	166	225	695
BLACK MALES:					
MEAN	9.863	9.577	10.456	12.333	10.044
STD.DEV.	4.257	4.656	5.171	6.309	4.879
MAXIMUM	25.600	28.500	26.000	27.500	28.500
MINIMUM	5.100	3.900	3.800	6.800	3.800
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	11.131	11.202	10.741	9.820	10.891
STD.DEV.	3.566	4.538	4.406	3.640	4.287
MAXIMUM	21.400	28.700	29.200	17.100	29.200
MINIMUM	7.100	4.800	3.200	4.900	3.200
CASES INCL.	16	50	58	10	134
ALL FEMALES:					
MEAN	17.621	15.966	18.123	18.400	16.777
STD.DEV.	5.600	6.074	6.100	11.314	6.045
MAXIMUM	34.100	39.700	30.400	26.400	39.700
MINIMUM	7.300	4.300	3.500	10.400	3.500
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	17.946	17.120	17.636	18.400	17.459
STD.DEV.	4.957	6.401	5.854	11.314	5.949
MAXIMUM	34.100	39.700	28.700	26.400	39.700
MINIMUM	9.400	7.200	6.500	10.400	6.500
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	17.019	14.755	18.400	0.000	15.692
STD.DEV.	6.681	5.202	7.213	0.000	5.910
MAXIMUM	30.200	27.200	30.400	0.000	30.400
MINIMUM	7.300	4.300	3.500	0.000	3.500
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	16.983	14.033	20.900	0.000	16.161
STD.DEV.	5.662	5.716	3.724	0.000	5.747
MAXIMUM	27.900	24.200	25.100	0.000	27.900
MINIMUM	12.200	8.100	18.000	0.000	8.100
CASES INCL.	6	9	3	0	18

SUBSCAPULAR SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	12.841	14.558	17.808	17.340	15.865
STD.DEV.	4.092	5.515	7.308	5.696	6.228
MAXIMUM	29.400	36.500	40.000	38.900	40.000
MINIMUM	4.000	6.200	4.500	6.300	4.000
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	12.983	14.214	17.989	17.070	15.861
STD.DEV.	4.171	5.135	7.027	5.517	5.942
MAXIMUM	29.400	29.900	40.000	38.600	40.000
MINIMUM	7.800	6.700	6.900	6.300	6.300
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	12.193	14.070	16.347	18.260	14.684
STD.DEV.	3.635	5.351	7.711	7.587	6.261
MAXIMUM	23.000	34.000	40.000	38.900	40.000
MINIMUM	4.000	6.200	4.500	11.200	4.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	13.881	16.682	19.010	20.200	17.618
STD.DEV.	4.655	6.240	7.143	5.511	6.638
MAXIMUM	29.100	36.500	37.400	26.500	37.400
MINIMUM	9.900	8.500	5.500	10.700	5.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	13.760	12.862	15.581	16.250	13.614
STD.DEV.	4.698	4.977	6.869	2.758	5.402
MAXIMUM	26.000	29.800	36.400	18.200	36.400
MINIMUM	7.000	5.600	5.400	14.300	5.400
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	13.519	12.953	14.809	16.250	13.553
STD.DEV.	4.751	5.374	6.500	2.758	5.491
MAXIMUM	26.000	29.800	33.600	18.200	33.600
MINIMUM	7.000	5.900	5.400	14.300	5.400
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	13.081	12.411	17.040	0.000	13.237
STD.DEV.	4.240	4.381	7.679	0.000	5.210
MAXIMUM	21.700	24.500	36.400	0.000	36.400
MINIMUM	7.800	5.600	7.000	0.000	5.600
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	15.800	15.411	13.433	0.000	15.211
STD.DEV	5.136	5.287	5.613	0.000	5.032
MAXIMUM	23.200	21.400	19.800	0.000	23.200
MINIMUM	10.000	7.800	9.200	0.000	7.800
CASES INCL	6	9	3	0	18

MIDAXILLARY SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	11.915	13.257	16.351	18.024	15.028
STD.DEV.	5.561	6.860	8.110	6.737	7.385
MAXIMUM	36.700	36.200	39.200	40.000	40.000
MINIMUM	4.300	3.100	3.800	4.800	3.100
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	12.547	14.136	17.670	17.950	15.984
STD.DEV.	5.610	6.944	7.876	6.571	7.205
MAXIMUM	30.200	36.200	39.200	39.600	39.600
MINIMUM	5.200	4.300	4.600	4.800	4.300
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	9.544	10.613	13.403	16.047	11.581
STD.DEV.	3.844	5.350	7.999	8.544	6.491
MAXIMUM	20.700	30.000	39.000	40.000	40.000
MINIMUM	4.300	3.100	3.800	7.200	3.100
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	13.775	16.420	17.333	21.450	16.875
STD.DEV.	6.994	7.805	8.314	7.006	7.988
MAXIMUM	36.700	31.900	39.200	32.600	39.200
MINIMUM	7.900	3.500	4.000	7.700	3.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	14.368	13.020	15.135	17.900	13.765
STD.DEV.	6.495	5.889	5.474	6.081	6.001
MAXIMUM	34.800	38.000	29.400	22.200	38.000
MINIMUM	3.600	4.800	4.300	13.600	3.600
CASES INCL	62	155	51	2	270
WHITE FEMALES:					
MEAN	14.611	13.917	14.456	17.900	14.263
STD.DEV.	6.257	5.867	4.984	6.081	5.757
MAXIMUM	34.800	38.000	28.500	22.200	38.000
MINIMUM	3.600	5.700	4.800	13.600	3.600
CASES INCL	37	76	32	2	147
BLACK FEMALES:					
MEAN	12.744	11.488	15.893	0.000	12.376
STD.DEV.	6.426	5.218	6.824	0.000	5.846
MAXIMUM	27.800	32.200	29.400	0.000	32.200
MINIMUM	4.600	4.800	4.300	0.000	4.300
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	15.533	15.878	16.300	0.000	15.833
STD.DEV.	7.397	6.566	0.985	0.000	6.047
MAXIMUM	29.000	23.500	17.100	0.000	29.000
MINIMUM	6.600	5.800	15.200	0.000	5.800
CASES INCL	6	9	3	0	18

WAIST SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	16.059	17.364	20.490	21.797	19.074
STD.DEV.	7.428	8.876	9.972	7.949	9.057
MAXIMUM	40.000	40.300	40.000	40.100	40.300
MINIMUM	4.800	4.100	4.000	4.200	4.000
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	16.777	18.370	21.680	22.160	20.156
STD.DEV.	7.232	8.765	9.303	7.845	8.648
MAXIMUM	39.900	40.300	40.000	40.100	40.300
MINIMUM	5.500	4.100	4.200	5.000	4.100
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	13.583	14.579	17.163	14.980	15.202
STD.DEV.	6.582	8.235	10.677	8.062	8.844
MAXIMUM	35.000	40.000	40.000	37.500	40.000
MINIMUM	4.800	4.200	4.000	4.200	4.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	17.487	20.214	22.148	23.690	20.985
STD.DEV.	8.613	9.031	9.848	7.634	9.314
MAXIMUM	40.000	40.000	40.000	34.100	40.000
MINIMUM	6.400	6.400	4.500	6.000	4.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	17.097	13.549	15.110	21.700	14.720
STD.DEV.	7.718	6.817	6.695	13.435	7.181
MAXIMUM	39.000	37.200	33.600	31.200	39.000
MINIMUM	4.800	4.200	4.200	12.200	4.200
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	17.954	14.412	15.424	21.700	15.622
STD.DEV.	7.143	7.087	6.608	13.435	7.176
MAXIMUM	31.400	37.200	32.000	31.200	37.200
MINIMUM	7.600	4.800	4.200	12.200	4.200
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	14.762	12.118	13.400	0.000	12.753
STD.DEV.	7.536	5.891	6.970	0.000	6.362
MAXIMUM	30.300	32.200	33.600	0.000	33.600
MINIMUM	4.800	4.200	4.200	0.000	4.200
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	16.933	15.378	17.200	0.000	16.200
STD.DEV.	11.106	8.059	5.810	0.000	8.458
MAXIMUM	39.000	32.800	22.800	0.000	39.000
MINIMUM	9.600	6.700	11.200	0.000	6.700
CASES INCL	6	9	3	0	18

ABDOMEN SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	19.328	20.961	26.828	30.263	24.511
STD.DEV.	9.119	10.104	10.823	7.912	10.566
MAXIMUM	40.700	40.600	40.400	40.100	40.700
MINIMUM	5.100	4.400	4.200	7.200	4.200
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	20.924	22.373	28.215	30.335	26.135
STD.DEV.	9.001	9.782	10.045	7.875	9.918
MAXIMUM	40.700	40.600	40.400	40.100	40.700
MINIMUM	7.300	5.500	4.200	7.200	4.200
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	15.473	17.564	23.351	26.327	19.445
STD.DEV.	8.060	9.632	11.940	8.949	10.615
MAXIMUM	39.300	40.000	40.000	40.000	40.000
MINIMUM	5.100	4.400	5.000	8.900	4.400
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	19.712	23.746	28.102	32.320	25.790
STD.DEV.	9.310	10.367	10.298	7.084	10.477
MAXIMUM	40.000	40.000	40.000	40.000	40.000
MINIMUM	9.000	7.300	6.200	16.400	6.200
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	21.960	19.672	22.104	31.150	20.746
STD.DEV.	8.255	8.356	7.550	9.970	8.277
MAXIMUM	40.000	40.000	35.400	38.200	40.000
MINIMUM	6.000	5.400	5.600	24.100	5.400
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	23.681	21.008	22.709	31.150	22.193
STD.DEV.	8.002	8.627	7.292	9.970	8.267
MAXIMUM	40.000	39.100	35.400	38.200	40.000
MINIMUM	9.600	6.400	11.300	24.100	6.400
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	19.188	17.879	19.667	0.000	18.371
STD.DEV.	9.248	7.608	7.607	0.000	7.844
MAXIMUM	40.000	40.000	30.100	0.000	40.000
MINIMUM	6.000	5.400	5.600	0.000	5.400
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	17.983	20.489	23.400	0.000	20.139
STD.DEV.	5.615	9.882	7.998	0.000	8.145
MAXIMUM	28.600	40.000	28.700	0.000	40.000
MINIMUM	13.400	8.100	14.200	0.000	8.100
CASES INCL	6	9	3	0	18

SUPRAILIAC SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	18.741	20.072	23.246	25.084	21.924
STD.DEV.	8.521	9.862	11.022	8.238	9.957
MAXIMUM	40.000	40.700	40.000	40.500	40.700
MINIMUM	4.700	4.000	4.000	5.000	4.000
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	20.127	21.435	24.731	25.288	23.280
STD.DEV.	8.630	9.481	10.161	8.141	9.332
MAXIMUM	40.000	40.700	40.000	40.500	40.700
MINIMUM	6.400	4.200	4.000	5.000	4.000
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	14.783	16.687	19.157	19.947	17.299
STD.DEV.	7.133	9.309	11.783	8.540	9.853
MAXIMUM	36.800	40.000	40.000	40.000	40.000
MINIMUM	4.700	4.000	4.200	8.200	4.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	20.262	22.974	25.136	27.300	23.909
STD.DEV.	7.901	10.517	11.009	9.174	10.434
MAXIMUM	40.000	40.000	40.000	38.300	40.000
MINIMUM	10.500	7.100	4.200	8.900	4.200
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	19.284	15.496	16.925	23.700	16.692
STD.DEV.	9.195	8.418	8.261	15.556	8.721
MAXIMUM	40.000	40.000	36.200	34.700	40.000
MINIMUM	3.800	3.400	5.000	12.700	3.400
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	20.332	16.145	17.503	23.700	17.597
STD.DEV.	8.401	8.908	8.237	15.556	8.813
MAXIMUM	35.000	40.000	32.700	34.700	40.000
MINIMUM	6.000	3.400	5.000	12.700	3.400
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	16.662	14.250	14.607	0.000	14.703
STD.DEV.	10.247	7.518	7.791	0.000	8.020
MAXIMUM	40.000	33.900	36.200	0.000	40.000
MINIMUM	3.800	4.200	5.600	0.000	3.800
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	18.033	18.133	18.467	0.000	18.156
STD.DEV.	11.126	10.120	10.904	0.000	9.931
MAXIMUM	40.000	38.800	29.200	0.000	40.000
MINIMUM	8.200	7.300	7.400	0.000	7.300
CASES INCL	6	9	3	0	18

KNEE SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	7.382	7.188	7.499	6.891	7.236
STD.DEV.	1.949	1.951	2.146	1.529	1.933
MAXIMUM	17.000	17.700	15.600	12.400	17.700
MINIMUM	4.000	3.500	3.600	3.800	3.500
CASES INCL	162	369	318	258	1127
WHITE MALES:					
MEAN	7.460	7.284	7.587	6.901	7.258
STD.DEV.	1.710	2.018	1.990	1.531	1.838
MAXIMUM	13.200	17.700	13.200	12.400	17.700
MINIMUM	5.100	4.300	3.700	3.800	3.700
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	7.183	7.007	7.329	6.487	7.100
STD.DEV.	2.433	1.853	2.400	1.639	2.113
MAXIMUM	17.000	11.600	15.100	9.600	17.000
MINIMUM	4.000	3.500	3.600	4.000	3.500
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	7.375	7.314	7.569	6.830	7.396
STD.DEV.	2.209	2.006	2.142	1.466	2.045
MAXIMUM	12.900	16.200	13.000	9.500	16.200
MINIMUM	4.400	5.000	3.600	4.700	3.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	7.989	7.141	8.329	7.200	7.563
STD.DEV.	2.666	2.493	3.243	0.000	2.719
MAXIMUM	16.400	16.700	15.700	7.200	16.700
MINIMUM	4.300	3.600	3.900	7.200	3.600
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	7.524	7.317	8.491	7.200	7.629
STD.DEV.	2.131	2.633	2.949	0.000	2.601
MAXIMUM	12.700	16.700	15.200	7.200	16.700
MINIMUM	4.300	3.600	4.700	7.200	3.600
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	8.869	6.883	7.233	0.000	7.265
STD.DEV.	2.809	2.342	3.100	0.000	2.622
MAXIMUM	16.400	14.000	14.900	0.000	16.400
MINIMUM	5.000	3.700	3.900	0.000	3.700
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	7.500	8.144	9.567	0.000	8.167
STD.DEV.	4.166	2.526	4.782	0.000	3.362
MAXIMUM	15.200	12.000	15.000	0.000	15.200
MINIMUM	4.600	5.100	6.000	0.000	4.600
CASES INCL	6	9	3	0	18

CALF SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	9.602	9.147	9.307	8.896	9.200
STD.DEV.	3.859	4.345	4.539	3.460	4.149
MAXIMUM	24.300	29.600	28.000	22.600	29.600
MINIMUM	3.600	2.500	2.200	3.100	2.200
CASES INCL	162	388	318	258	1126
WHITE MALES:					
MEAN	10.308	10.086	10.122	9.106	9.809
STD.DEV.	3.568	4.448	4.655	3.554	4.130
MAXIMUM	21.100	29.600	26.300	22.600	29.600
MINIMUM	4.900	3.100	2.800	3.100	2.800
CASES INCL	101	202	166	225	694
BLACK MALES:					
MEAN	7.917	7.652	8.061	7.567	7.810
STD.DEV.	4.002	3.962	4.328	2.565	3.997
MAXIMUM	24.300	27.300	24.000	12.900	27.300
MINIMUM	3.600	3.300	2.400	4.400	2.400
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	9.713	9.388	9.233	7.840	9.244
STD.DEV.	4.423	4.043	4.377	2.132	4.115
MAXIMUM	23.900	19.900	28.000	12.200	28.000
MINIMUM	5.300	2.500	2.800	5.300	2.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	16.444	15.535	16.552	14.450	15.930
STD.DEV.	5.725	6.645	6.382	5.445	6.374
MAXIMUM	31.300	40.000	34.400	18.300	40.000
MINIMUM	7.400	5.500	2.600	10.600	2.600
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	16.905	17.566	15.888	14.450	16.984
STD.DEV.	5.277	6.931	4.907	5.445	6.108
MAXIMUM	29.300	40.000	25.400	18.300	40.000
MINIMUM	7.600	6.100	5.600	10.600	5.600
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	15.794	13.548	16.413	0.000	14.362
STD.DEV.	6.471	6.062	6.417	0.000	6.236
MAXIMUM	31.300	37.100	23.600	0.000	37.100
MINIMUM	7.700	5.500	3.000	0.000	3.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	16.033	14.578	21.200	0.000	16.167
STD.DEV.	7.134	3.674	16.573	0.000	7.710
MAXIMUM	27.900	20.400	34.400	0.000	34.400
MINIMUM	7.400	10.200	2.600	0.000	2.600
CASES INCL	6	9	3	0	18

THIGH SKINFOLD(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	12.822	12.972	14.621	15.069	13.895
STD.DEV.	5.053	6.137	6.877	5.154	6.076
MAXIMUM	39.100	40.000	39.600	31.600	40.000
MINIMUM	5.100	3.700	3.500	5.100	3.500
CASES INCL	162	389	317	258	1126
WHITE MALES:					
MEAN	13.359	13.844	16.410	15.424	14.896
STD.DEV.	4.485	6.217	6.965	5.218	5.979
MAXIMUM	28.400	40.000	39.600	31.600	40.000
MINIMUM	6.300	5.500	4.600	5.100	4.600
CASES INCL	101	203	165	225	694
BLACK MALES:					
MEAN	11.600	11.268	11.977	12.093	11.578
STD.DEV.	6.596	6.113	6.555	3.346	6.180
MAXIMUM	39.100	32.300	32.700	19.900	39.100
MINIMUM	5.100	3.700	4.200	7.300	3.700
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	13.106	13.986	14.202	12.960	13.898
STD.DEV.	3.956	5.496	5.895	4.251	5.403
MAXIMUM	21.200	28.500	33.800	19.300	33.800
MINIMUM	7.500	6.100	3.500	6.300	3.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	27.577	24.645	28.477	29.200	26.085
STD.DEV.	8.887	8.768	8.477	5.657	8.846
MAXIMUM	40.000	40.000	40.000	33.200	40.000
MINIMUM	10.000	7.200	3.700	25.200	3.700
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	28.608	26.626	28.242	29.200	27.517
STD.DEV.	8.360	8.922	7.779	5.657	8.485
MAXIMUM	40.000	40.000	40.000	33.200	40.000
MINIMUM	10.000	8.300	8.800	25.200	8.300
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	25.850	22.315	27.460	0.000	23.694
STD.DEV.	9.237	8.250	10.110	0.000	8.857
MAXIMUM	40.000	40.000	40.000	0.000	40.000
MINIMUM	10.200	7.200	3.700	0.000	3.700
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	26.517	24.511	35.267	0.000	26.972
STD.DEV.	10.457	8.210	8.198	0.000	9.339
MAXIMUM	39.200	34.200	40.000	0.000	40.000
MINIMUM	14.200	10.000	25.800	0.000	10.000
CASES INCL	6	9	3	0	18

HEAD CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	56.450	56.281	56.802	57.306	56.688
STD.DEV.	1.724	1.866	1.743	1.533	1.781
MAXIMUM	66.700	64.900	65.100	61.500	66.700
MINIMUM	52.100	40.400	52.200	53.200	40.400
CASES INCL	162	388	318	259	1127
WHITE MALES:					
MEAN	56.391	56.211	56.896	57.335	56.766
STD.DEV.	1.801	2.031	1.742	1.532	1.834
MAXIMUM	66.700	62.800	65.100	61.500	66.700
MINIMUM	52.100	40.400	52.200	53.200	40.400
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	56.578	56.474	57.137	57.820	56.765
STD.DEV.	1.656	1.504	1.717	1.504	1.632
MAXIMUM	61.700	61.800	62.100	60.300	62.100
MINIMUM	53.000	52.300	52.800	55.800	52.300
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	56.687	56.153	56.264	56.660	56.304
STD.DEV.	1.412	2.079	1.574	1.402	1.743
MAXIMUM	58.800	64.900	60.300	58.800	64.900
MINIMUM	53.300	50.500	52.500	54.400	50.500
CASES INCL	16	49	58	10	133
ALL FEMALES:					
MEAN	54.460	54.482	54.537	50.850	54.460
STD.DEV.	1.824	1.710	1.769	3.748	1.778
MAXIMUM	59.300	58.500	57.900	53.500	59.300
MINIMUM	51.100	50.500	50.400	48.200	48.200
CASES INCL	62	154	52	2	270
WHITE FEMALES:					
MEAN	53.950	54.077	54.097	50.850	54.001
STD.DEV.	1.561	1.684	1.519	3.748	1.668
MAXIMUM	57.200	57.800	56.900	53.500	57.800
MINIMUM	51.100	50.500	51.200	48.200	48.200
CASES INCL	37	75	33	2	147
BLACK FEMALES:					
MEAN	55.619	55.000	55.813	0.000	55.228
STD.DEV.	2.112	1.624	1.471	0.000	1.707
MAXIMUM	59.300	58.500	57.900	0.000	59.300
MINIMUM	53.200	51.200	53.600	0.000	51.200
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	54.667	53.956	53.200	0.000	54.067
STD.DEV.	1.727	1.422	3.081	0.000	1.792
MAXIMUM	56.800	55.300	56.500	0.000	56.800
MINIMUM	51.600	50.800	50.400	0.000	50.400
CASES INCL	6	9	3	0	18

NECK CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	35.888	36.428	37.447	36.951	36.757
STD.DEV.	1.862	2.218	2.330	1.878	2.193
MAXIMUM	41.400	47.500	48.400	42.600	48.400
MINIMUM	29.300	30.200	28.400	26.900	26.900
CASES INCL	162	388	317	259	1126
WHITE MALES:					
MEAN	35.880	36.427	37.563	36.921	36.778
STD.DEV.	1.749	1.985	2.458	1.874	2.112
MAXIMUM	39.500	42.300	48.400	42.600	48.400
MINIMUM	29.300	31.900	28.400	26.900	26.900
CASES INCL	101	203	165	226	695
BLACK MALES:					
MEAN	36.012	36.493	37.429	37.593	36.757
STD.DEV.	1.955	2.288	2.100	2.106	2.228
MAXIMUM	39.800	47.100	45.300	42.500	47.100
MINIMUM	30.900	32.700	32.800	34.300	30.900
CASES INCL	41	123	75	15	254
HISPANIC MALES:					
MEAN	35.662	36.300	37.343	36.950	36.724
STD.DEV.	1.890	2.932	2.156	1.778	2.480
MAXIMUM	41.200	47.500	43.000	39.400	47.500
MINIMUM	33.200	30.200	31.300	34.300	30.200
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	31.052	30.845	31.323	31.100	30.986
STD.DEV.	2.117	1.729	1.578	1.556	1.798
MAXIMUM	37.200	34.500	34.500	32.200	37.200
MINIMUM	22.100	20.000	27.500	30.000	20.000
CASES INCL	62	154	52	2	270
WHITE FEMALES:					
MEAN	30.873	30.783	31.309	31.100	30.928
STD.DEV.	2.272	1.945	1.482	1.556	1.932
MAXIMUM	34.900	34.300	34.500	32.200	34.900
MINIMUM	22.100	20.000	27.500	30.000	20.000
CASES INCL	37	75	33	2	147
BLACK FEMALES:					
MEAN	30.937	30.958	31.500	0.000	31.038
STD.DEV.	1.416	1.466	1.859	0.000	1.521
MAXIMUM	32.700	34.500	34.400	0.000	34.500
MINIMUM	28.800	27.400	28.700	0.000	27.400
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	32.050	30.622	30.100	0.000	31.011
STD.DEV.	2.880	1.327	0.794	0.000	1.988
MAXIMUM	37.200	32.300	30.700	0.000	37.200
MINIMUM	28.500	28.100	29.200	0.000	28.100
CASES INCL	6	9	3	0	18

BICEP CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	27.592	28.054	28.760	28.317	28.247
STD.DEV.	1.919	2.526	2.592	2.125	2.408
MAXIMUM	34.300	41.500	37.800	40.400	41.500
MINIMUM	22.900	23.100	20.800	22.600	20.800
CASES INCL	162	369	318	259	1128
WHITE MALES:					
MEAN	27.504	27.833	28.567	28.178	28.072
STD.DEV.	1.882	2.454	2.613	1.849	2.261
MAXIMUM	34.300	41.500	36.200	33.900	41.500
MINIMUM	22.900	23.100	20.800	22.600	20.800
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	27.946	28.536	29.444	30.860	28.845
STD.DEV.	1.813	2.640	2.368	4.058	2.638
MAXIMUM	32.400	37.500	34.600	40.400	40.400
MINIMUM	25.100	23.500	24.600	26.100	23.500
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	27.425	27.756	28.731	27.990	28.156
STD.DEV.	2.348	2.398	2.571	1.805	2.463
MAXIMUM	33.300	35.800	37.800	31.200	37.800
MINIMUM	23.900	23.200	23.200	24.200	23.200
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	24.413	24.172	25.048	24.350	24.396
STD.DEV.	2.169	2.245	2.005	4.172	2.207
MAXIMUM	29.200	35.900	29.100	27.300	35.900
MINIMUM	20.700	19.500	21.000	21.400	19.500
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	24.295	24.186	24.824	24.350	24.357
STD.DEV.	1.991	2.223	2.138	4.172	2.161
MAXIMUM	29.200	32.700	29.100	27.300	32.700
MINIMUM	20.700	19.500	21.000	21.400	19.500
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	24.531	24.047	25.640	0.000	24.373
STD.DEV.	2.392	1.835	1.817	0.000	1.996
MAXIMUM	29.000	29.600	29.100	0.000	29.600
MINIMUM	22.100	20.500	22.200	0.000	20.500
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	24.717	24.322	24.133	0.000	24.422
STD.DEV.	3.271	1.912	0.850	0.000	2.237
MAXIMUM	28.100	27.700	25.000	0.000	28.100
MINIMUM	21.000	21.900	23.300	0.000	21.000
CASES INCL	6	9	3	0	18

FLEXED BICEP CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	32.207	32.821	33.486	32.947	32.949
STD.DEV.	2.340	2.938	2.873	2.314	2.733
MAXIMUM	39.800	44.500	42.900	44.000	44.500
MINIMUM	26.000	25.600	24.900	25.900	24.900
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	31.926	32.476	33.210	32.818	32.682
STD.DEV.	2.191	2.611	2.907	2.112	2.508
MAXIMUM	39.800	43.000	42.900	38.900	43.000
MINIMUM	26.500	27.500	24.900	25.900	24.900
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	32.983	33.595	34.424	35.073	33.827
STD.DEV.	2.297	3.183	2.482	3.950	2.955
MAXIMUM	38.400	44.500	38.800	44.000	44.500
MINIMUM	28.100	25.600	29.200	30.800	25.600
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	32.125	32.452	33.348	33.200	32.857
STD.DEV.	2.884	3.238	2.872	1.849	2.968
MAXIMUM	38.000	44.200	42.800	36.000	44.200
MINIMUM	26.000	26.000	24.900	29.500	24.900
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	27.095	26.858	28.121	27.850	27.163
STD.DEV.	2.993	2.379	2.200	5.162	2.546
MAXIMUM	43.100	37.400	34.000	31.500	43.100
MINIMUM	22.700	22.400	22.600	24.200	22.400
CASES INCL	60	154	52	2	268
WHITE FEMALES:					
MEAN	26.639	26.745	27.882	27.850	26.989
STD.DEV.	2.023	2.102	2.328	5.162	2.232
MAXIMUM	31.600	33.500	34.000	31.500	34.000
MINIMUM	22.700	22.400	22.600	24.200	22.400
CASES INCL	36	76	33	2	147
BLACK FEMALES:					
MEAN	27.167	26.871	28.673	0.000	27.202
STD.DEV.	2.310	2.378	1.938	0.000	2.372
MAXIMUM	30.500	37.400	32.100	0.000	37.400
MINIMUM	23.800	22.600	25.900	0.000	22.600
CASES INCL	15	65	15	0	95
HISPANIC FEMALES:					
MEAN	29.417	27.267	26.967	0.000	27.933
STD.DEV.	7.328	1.664	0.651	0.000	4.281
MAXIMUM	43.100	30.100	27.600	0.000	43.100
MINIMUM	24.100	24.900	26.300	0.000	24.100
CASES INCL	6	9	3	0	18

SHOULDER CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	112.483	113.923	115.614	114.970	114.434
STD.DEV.	5.619	6.339	7.030	5.681	6.382
MAXIMUM	130.700	137.300	136.600	139.300	139.300
MINIMUM	94.900	97.000	97.800	95.700	94.900
CASES INCL	162	388	318	259	1127
WHITE MALES:					
MEAN	112.641	114.208	115.831	114.727	114.536
STD.DEV.	5.483	6.304	7.026	5.458	6.181
MAXIMUM	130.700	137.300	136.200	127.500	137.300
MINIMUM	94.900	97.000	97.800	95.700	94.900
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	111.951	113.981	116.163	118.867	114.586
STD.DEV.	5.155	6.104	6.516	7.258	6.374
MAXIMUM	122.700	135.400	127.900	139.300	139.300
MINIMUM	101.300	97.700	101.000	112.000	97.700
CASES INCL	41	123	75	15	254
HISPANIC MALES:					
MEAN	113.181	112.684	114.947	116.750	114.026
STD.DEV.	6.544	7.006	7.253	5.197	6.998
MAXIMUM	129.600	131.100	136.600	128.300	136.600
MINIMUM	102.800	102.300	99.100	109.100	99.100
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	101.140	100.179	102.348	92.500	100.789
STD.DEV.	5.322	5.317	4.880	0.000	5.300
MAXIMUM	112.300	122.900	113.500	92.500	122.900
MINIMUM	90.400	84.500	88.200	92.500	84.500
CASES INCL	62	155	52	1	270
WHITE FEMALES:					
MEAN	101.651	100.267	101.936	92.500	100.937
STD.DEV.	5.271	5.330	5.144	0.000	5.322
MAXIMUM	112.300	113.100	112.500	92.500	113.100
MINIMUM	92.200	84.500	88.200	92.500	84.500
CASES INCL	37	76	33	1	147
BLACK FEMALES:					
MEAN	100.019	99.874	104.253	0.000	100.575
STD.DEV.	5.565	4.710	3.987	0.000	4.968
MAXIMUM	108.500	109.800	113.500	0.000	113.500
MINIMUM	91.000	87.500	99.200	0.000	87.500
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	101.283	100.744	97.967	0.000	100.461
STD.DEV.	6.470	3.778	3.493	0.000	4.674
MAXIMUM	109.000	106.000	101.100	0.000	109.000
MINIMUM	90.400	93.900	94.200	0.000	90.400
CASES INCL	6	9	3	0	18

CHEST CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	87.312	88.696	93.153	93.281	90.811
STD.DEV.	6.458	6.554	8.119	6.505	7.432
MAXIMUM	112.900	116.800	116.100	116.200	116.800
MINIMUM	71.300	73.800	65.200	64.200	64.200
CASES INCL.	161	388	318	259	1126
WHITE MALES:					
MEAN	88.617	90.157	94.773	93.438	92.105
STD.DEV.	6.336	6.558	7.799	6.445	7.164
MAXIMUM	112.900	116.800	116.100	116.200	116.800
MINIMUM	79.200	76.800	77.700	64.200	64.200
CASES INCL.	100	203	166	226	695
BLACK MALES:					
MEAN	84.937	86.559	91.624	92.093	88.120
STD.DEV.	4.543	5.559	7.454	6.569	6.649
MAXIMUM	92.700	104.200	108.200	110.700	110.700
MINIMUM	73.800	73.900	76.200	85.600	73.800
CASES INCL.	41	123	75	15	254
HISPANIC MALES:					
MEAN	86.369	88.696	92.034	95.730	90.388
STD.DEV.	8.269	7.336	8.752	4.114	8.238
MAXIMUM	111.500	107.200	114.200	105.300	114.200
MINIMUM	71.600	75.800	65.200	91.400	65.200
CASES INCL.	16	50	58	10	134
ALL FEMALES:					
MEAN	75.571	75.420	78.580	88.350	76.147
STD.DEV.	4.923	5.041	5.637	25.668	5.569
MAXIMUM	85.300	93.600	95.400	106.500	106.500
MINIMUM	63.600	63.800	68.000	70.200	63.600
CASES INCL.	62	155	51	2	270
WHITE FEMALES:					
MEAN	76.435	76.383	78.600	88.350	77.042
STD.DEV.	4.560	5.055	5.963	25.668	5.738
MAXIMUM	85.200	89.100	95.400	106.500	106.500
MINIMUM	67.000	67.900	68.000	70.200	67.000
CASES INCL.	37	76	32	2	147
BLACK FEMALES:					
MEAN	73.331	74.064	79.027	0.000	74.710
STD.DEV.	5.679	4.391	5.473	0.000	5.097
MAXIMUM	85.300	85.400	89.900	0.000	89.900
MINIMUM	63.600	64.300	71.200	0.000	63.600
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	76.717	76.856	76.267	0.000	76.711
STD.DEV.	4.881	2.787	4.884	0.000	3.676
MAXIMUM	82.500	81.100	80.200	0.000	82.500
MINIMUM	71.900	73.900	70.800	0.000	70.800
CASES INCL.	6	9	3	0	18

ABDOMEN 1 CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	77.540	79.721	85.723	86.441	82.639
STD.DEV.	6.006	7.637	9.507	7.054	8.645
MAXIMUM	98.200	111.800	120.400	114.700	120.400
MINIMUM	64.000	64.700	61.700	68.200	61.700
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	78.359	80.968	87.399	86.445	83.898
STD.DEV.	5.980	7.894	9.220	6.914	8.423
MAXIMUM	97.500	111.800	120.400	112.300	120.400
MINIMUM	68.900	66.000	66.300	68.800	66.000
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	75.837	77.410	83.471	86.040	79.447
STD.DEV.	4.510	6.363	9.972	9.440	8.257
MAXIMUM	85.900	99.500	112.000	114.700	114.700
MINIMUM	68.600	68.300	68.800	76.100	68.300
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	77.550	80.840	85.297	88.130	82.920
STD.DEV.	7.273	8.193	8.626	7.525	8.719
MAXIMUM	98.200	96.300	113.100	95.100	113.100
MINIMUM	65.200	66.600	65.200	68.200	65.200
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	69.195	69.233	72.952	75.250	69.985
STD.DEV.	6.103	6.159	6.523	12.092	6.404
MAXIMUM	84.900	97.300	91.600	83.800	97.300
MINIMUM	51.000	55.700	60.600	66.700	51.000
CASES INCL	61	155	52	2	270
WHITE FEMALES:					
MEAN	69.097	69.701	73.048	75.250	70.380
STD.DEV.	6.655	6.952	6.665	12.092	6.983
MAXIMUM	84.900	97.300	89.200	83.800	97.300
MINIMUM	51.000	55.700	60.600	66.700	51.000
CASES INCL	36	76	33	2	147
BLACK FEMALES:					
MEAN	69.244	68.338	73.627	0.000	69.305
STD.DEV.	5.384	4.717	6.829	0.000	5.474
MAXIMUM	78.700	80.100	91.600	0.000	91.600
MINIMUM	62.000	60.000	63.500	0.000	60.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	70.367	71.444	69.133	0.000	70.700
STD.DEV.	5.943	3.907	4.532	0.000	4.556
MAXIMUM	77.700	78.200	71.800	0.000	78.200
MINIMUM	64.600	67.000	63.900	0.000	63.900
CASES INCL	6	9	3	0	18

ABDOMEN 2 CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	78.886	80.836	87.570	88.874	84.300
STD.DEV.	6.988	8.461	10.538	7.330	9.557
MAXIMUM	101.800	114.500	121.500	115.700	121.500
MINIMUM	56.900	65.100	62.800	68.900	56.900
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	80.208	82.667	89.699	88.953	86.028
STD.DEV.	6.847	8.676	10.075	7.134	9.134
MAXIMUM	98.800	114.500	121.500	113.700	121.500
MINIMUM	69.400	66.100	63.500	68.900	63.500
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	76.288	77.586	84.243	87.100	79.895
STD.DEV.	4.849	7.056	10.902	9.513	8.988
MAXIMUM	87.700	101.800	114.500	115.700	115.700
MINIMUM	68.700	67.300	67.500	75.300	67.300
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	77.731	82.032	87.162	90.360	84.360
STD.DEV.	9.454	8.530	9.793	7.029	9.736
MAXIMUM	101.800	100.300	117.200	97.600	117.200
MINIMUM	56.900	68.200	65.200	71.500	56.900
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	72.733	71.543	76.069	77.950	72.731
STD.DEV.	7.582	7.203	8.102	13.789	7.671
MAXIMUM	97.100	105.600	101.200	87.700	105.600
MINIMUM	51.000	59.300	61.200	68.200	51.000
CASES INCL	61	155	52	2	270
WHITE FEMALES:					
MEAN	73.100	72.868	75.667	77.950	73.622
STD.DEV.	7.575	8.013	7.427	13.789	7.855
MAXIMUM	90.900	105.600	93.800	87.700	105.600
MINIMUM	51.000	61.200	61.200	68.200	51.000
CASES INCL	36	76	33	2	147
BLACK FEMALES:					
MEAN	71.600	70.006	77.080	0.000	71.363
STD.DEV.	8.307	5.566	10.185	0.000	7.299
MAXIMUM	97.100	85.300	101.200	0.000	101.200
MINIMUM	63.000	60.400	66.500	0.000	60.400
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	73.833	72.033	74.033	0.000	72.967
STD.DEV.	7.083	7.021	6.285	0.000	6.597
MAXIMUM	82.300	83.600	79.900	0.000	83.600
MINIMUM	63.500	62.400	67.400	0.000	62.400
CASES INCL	6	9	3	0	18

HIP CIRCUMFEENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	95.218	95.864	98.642	98.115	97.072
STD.DEV.	5.998	6.527	7.400	5.339	6.609
MAXIMUM	130.100	119.400	127.400	121.400	130.100
MINIMUM	78.900	77.800	78.500	78.000	77.800
CASES INCL	162	388	318	259	1127
WHITE MALES:					
MEAN	95.753	96.575	99.510	98.208	97.688
STD.DEV.	6.093	6.476	6.696	5.051	6.182
' IMUM	130.100	119.400	122.300	111.800	130.100
NIMUM	86.200	77.800	78.500	78.000	77.800
ASES INCL	101	202	166	226	695
BLACK MALES:					
MEAN	94.366	94.877	98.529	99.487	96.140
STD.DEV.	4.899	6.324	8.798	7.819	7.260
MAXIMUM	104.200	114.800	127.400	121.400	127.400
MINIMUM	78.900	80.800	84.200	91.100	78.900
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	95.212	96.062	97.719	97.110	96.756
STD.DEV.	6.860	6.457	7.022	4.369	6.631
MAXIMUM	114.700	109.000	119.800	104.200	119.800
MINIMUM	80.600	86.300	83.100	88.300	80.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	94.442	94.201	97.679	94.150	94.926
STD.DEV.	7.369	6.385	6.773	7.142	6.798
MAXIMUM	121.000	113.200	120.000	99.200	121.000
MINIMUM	77.500	77.300	83.000	89.100	77.300
CASES INCL	62	154	52	2	270
WHITE FEMALES:					
MEAN	94.832	94.844	97.452	94.150	95.417
STD.DEV.	7.586	6.302	5.901	7.142	6.596
MAXIMUM	121.000	113.200	110.300	99.200	121.000
MINIMUM	83.900	81.700	83.000	89.100	81.700
CASES INCL	37	75	33	2	147
BLACK FEMALES:					
MEAN	94.488	93.382	99.027	0.000	94.437
STD.DEV.	7.563	6.496	8.817	0.000	7.273
MAXIMUM	111.500	110.300	120.000	0.000	120.000
MINIMUM	77.500	77.300	86.800	0.000	77.300
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	94.100	96.033	94.967	0.000	95.211
STD.DEV.	6.905	5.209	5.689	0.000	5.604
MAXIMUM	103.700	102.500	99.200	0.000	103.700
MINIMUM	85.100	87.300	88.500	0.000	85.100
CASES INCL	6	9	3	0	18

FOREARM CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	27.296	27.554	28.015	27.429	27.619
STD.DEV.	1.785	1.979	2.091	1.682	1.937
MAXIMUM	36.700	39.300	38.200	35.500	39.300
MINIMUM	23.500	22.500	22.000	16.600	16.600
CASES INCL.	161	389	318	259	1127
WHITE MALES:					
MEAN	27.282	27.564	27.916	27.392	27.551
STD.DEV.	1.863	2.080	2.201	1.508	1.922
MAXIMUM	36.700	39.300	38.200	30.600	39.300
MINIMUM	23.500	23.300	22.000	16.600	16.600
CASES INCL.	101	203	166	226	696
BLACK MALES:					
MEAN	27.515	27.844	28.693	29.100	28.117
STD.DEV.	1.557	1.805	1.742	2.246	1.837
MAXIMUM	30.600	34.300	31.900	35.500	35.500
MINIMUM	24.100	23.400	24.600	26.500	23.400
CASES INCL.	40	124	75	15	254
HISPANIC MALES:					
MEAN	27.062	26.922	27.717	26.000	27.214
STD.DEV.	1.813	1.829	1.941	2.766	1.998
MAXIMUM	31.400	30.500	33.500	28.700	33.500
MINIMUM	23.900	22.500	22.700	19.000	19.000
CASES INCL.	16	50	58	10	134
ALL FEMALES:					
MEAN	23.179	23.096	23.396	22.300	23.167
STD.DEV.	1.529	1.575	1.884	1.697	1.626
MAXIMUM	27.500	28.500	26.700	23.500	28.500
MINIMUM	20.100	14.100	14.000	21.100	14.000
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	23.024	22.999	23.479	22.300	23.103
STD.DEV.	1.493	1.293	1.279	1.697	1.350
MAXIMUM	27.500	25.500	25.700	23.500	27.500
MINIMUM	20.100	20.100	20.400	21.100	20.100
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	23.594	23.302	23.300	0.000	23.349
STD.DEV.	1.632	1.452	2.998	0.000	1.779
MAXIMUM	27.400	27.400	26.700	0.000	27.400
MINIMUM	21.000	21.000	14.000	0.000	14.000
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	23.200	23.000	22.867	0.000	23.044
STD.DEV.	1.901	0.733	0.850	0.000	1.190
MAXIMUM	25.200	24.400	23.500	0.000	25.200
MINIMUM	20.900	22.400	21.900	0.000	20.900
CASES INCL.	6	9	3	0	18

WRIST CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	16.683	16.652	16.791	16.868	16.745
STD.DEV.	0.805	1.009	0.946	0.972	0.959
MAXIMUM	19.000	26.900	22.600	26.200	26.900
MINIMUM	14.100	14.000	13.500	14.400	13.500
CASES INCL.	162	389	317	259	1127
WHITE MALES:					
MEAN	16.755	16.809	16.928	16.851	16.843
STD.DEV.	0.654	1.090	0.997	0.743	0.908
MAXIMUM	18.100	26.900	22.600	19.300	26.900
MINIMUM	15.100	14.000	13.500	14.400	13.500
CASES INCL.	101	203	166	226	696
BLACK MALES:					
MEAN	16.571	16.559	16.887	17.873	16.735
STD.DEV.	0.961	0.881	0.762	2.481	1.064
MAXIMUM	18.300	18.800	19.500	26.200	26.200
MINIMUM	14.100	14.600	15.200	16.100	14.100
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	16.600	16.374	16.433	16.320	16.422
STD.DEV.	1.155	0.811	0.887	0.870	0.887
MAXIMUM	19.000	18.500	18.100	18.100	19.000
MINIMUM	14.400	14.600	13.600	15.000	13.600
CASES INCL.	16	50	58	10	134
ALL FEMALES:					
MEAN	14.898	14.668	14.690	14.650	14.725
STD.DEV.	1.947	1.419	0.701	0.212	1.452
MAXIMUM	25.800	24.700	16.500	14.800	25.800
MINIMUM	13.000	13.000	13.500	14.500	13.000
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	14.703	14.739	14.697	14.650	14.720
STD.DEV.	0.654	1.741	0.745	0.212	1.331
MAXIMUM	16.200	24.700	16.500	14.800	24.700
MINIMUM	13.000	13.200	13.500	14.500	13.000
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	15.044	14.538	14.820	0.000	14.665
STD.DEV.	2.417	0.633	0.614	0.000	1.131
MAXIMUM	23.900	16.500	16.100	0.000	23.900
MINIMUM	13.600	13.000	14.100	0.000	13.000
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	15.967	14.222	14.133	0.000	14.789
STD.DEV.	4.870	0.444	0.551	0.000	2.800
MAXIMUM	25.800	14.800	14.700	0.000	25.800
MINIMUM	13.200	13.300	13.600	0.000	13.200
CASES INCL.	6	9	3	0	18

THIGH CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	52.577	53.314	55.585	53.864	53.974
STD.DEV.	4.796	5.040	5.853	3.774	5.107
MAXIMUM	63.200	69.800	76.000	64.800	76.000
MINIMUM	29.700	34.600	27.200	41.100	27.200
CASES INCL	162	387	317	259	1125
WHITE MALES:					
MEAN	52.223	53.075	55.145	53.770	53.669
STD.DEV.	4.879	5.012	5.576	3.598	4.818
MAXIMUM	63.200	69.600	72.400	64.200	72.400
MINIMUM	29.700	37.000	39.600	41.100	29.700
CASES INCL	101	203	165	226	695
BLACK MALES:					
MEAN	53.483	54.380	57.127	57.067	55.206
STD.DEV.	4.663	4.761	5.708	4.087	5.190
MAXIMUM	62.400	69.800	75.800	64.800	75.800
MINIMUM	44.500	41.400	44.900	49.000	41.400
CASES INCL	41	123	75	15	254
HISPANIC MALES:					
MEAN	53.337	52.206	55.728	52.730	53.917
STD.DEV.	4.530	5.581	6.353	4.401	5.923
MAXIMUM	61.900	63.700	76.000	61.300	76.000
MINIMUM	41.600	34.600	27.200	46.300	27.200
CASES INCL	16	49	58	10	133
ALL FEMALES:					
MEAN	53.805	53.786	54.129	50.300	53.830
STD.DEV.	4.313	4.289	7.003	1.556	4.907
MAXIMUM	64.200	65.000	77.100	51.400	77.100
MINIMUM	45.100	44.000	26.800	49.200	26.800
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	53.489	53.576	54.327	50.300	53.678
STD.DEV.	4.616	4.437	4.416	1.556	4.448
MAXIMUM	64.200	65.000	66.700	51.400	66.700
MINIMUM	45.100	44.300	46.400	49.200	44.300
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	54.781	54.167	53.800	0.000	54.211
STD.DEV.	3.873	4.188	11.514	0.000	5.799
MAXIMUM	60.700	63.600	77.100	0.000	77.100
MINIMUM	49.800	44.000	26.800	0.000	26.800
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	53.183	53.633	53.600	0.000	53.478
STD.DEV.	3.282	3.126	2.961	0.000	2.974
MAXIMUM	56.400	59.800	56.400	0.000	59.800
MINIMUM	48.600	49.400	50.500	0.000	48.600
CASES INCL	6	9	3	0	18

KNEE CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	36.857	36.660	37.203	37.497	37.034
STD.DEV.	2.917	2.494	2.888	2.391	2.669
MAXIMUM	55.600	46.200	56.800	57.700	57.700
MINIMUM	25.400	23.400	30.800	31.700	23.400
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	37.011	36.945	37.376	37.561	37.257
STD.DEV.	2.725	2.578	3.021	2.398	2.664
MAXIMUM	55.600	45.700	56.800	57.700	57.700
MINIMUM	32.300	23.400	31.200	31.700	23.400
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	36.354	36.369	37.624	38.060	36.835
STD.DEV.	3.517	2.216	3.100	2.224	2.795
MAXIMUM	52.000	42.200	53.400	45.300	53.400
MINIMUM	25.400	32.000	30.800	36.300	25.400
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	37.294	36.454	36.405	36.710	36.552
STD.DEV.	2.554	2.618	2.078	2.490	2.369
MAXIMUM	43.900	46.200	42.900	40.200	46.200
MINIMUM	31.600	32.700	32.400	32.200	31.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	34.727	34.670	36.260	33.400	34.979
STD.DEV.	2.303	2.602	4.273	0.141	2.986
MAXIMUM	40.900	42.400	57.600	33.500	57.600
MINIMUM	31.100	23.800	25.100	33.300	23.800
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	34.432	34.829	36.379	33.400	35.056
STD.DEV.	2.023	2.835	4.584	0.141	3.199
MAXIMUM	38.600	42.400	57.600	33.500	57.600
MINIMUM	31.100	23.800	31.500	33.300	23.800
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	35.394	34.524	35.873	0.000	34.876
STD.DEV.	2.434	2.422	4.111	0.000	2.765
MAXIMUM	39.500	40.500	42.800	0.000	42.800
MINIMUM	31.900	29.800	25.100	0.000	25.100
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	35.567	34.844	37.033	0.000	35.450
STD.DEV.	3.168	2.053	2.957	0.000	2.570
MAXIMUM	40.900	39.600	40.100	0.000	40.900
MINIMUM	31.400	32.900	34.200	0.000	31.400
CASES INCL	6	9	3	0	18

CALF CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	36.802	36.790	37.384	37.460	37.113
STD.DEV.	2.610	2.850	3.064	2.242	2.768
MAXIMUM	42.700	46.700	46.600	46.600	46.700
MINIMUM	23.800	26.700	25.600	31.000	23.800
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	36.818	37.132	37.623	37.582	37.350
STD.DEV.	2.618	2.958	3.155	2.159	2.737
MAXIMUM	42.200	46.700	46.600	46.600	46.700
MINIMUM	23.800	26.700	25.600	31.500	23.800
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	36.880	36.525	37.633	37.233	36.950
STD.DEV.	2.562	2.617	2.835	2.253	2.684
MAXIMUM	41.900	45.000	46.100	43.200	46.100
MINIMUM	30.200	26.800	31.000	33.200	26.800
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	36.675	36.120	36.717	35.170	36.374
STD.DEV.	2.882	2.678	2.820	2.346	2.748
MAXIMUM	42.700	41.700	45.900	38.700	45.900
MINIMUM	30.300	29.500	28.600	31.000	28.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	34.705	34.588	35.367	33.500	34.756
STD.DEV.	2.466	2.919	2.831	0.283	2.801
MAXIMUM	39.800	48.500	47.300	33.700	48.500
MINIMUM	29.400	26.000	30.800	33.300	26.000
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	34.692	34.886	35.524	33.500	34.961
STD.DEV.	2.561	3.375	3.067	0.283	3.101
MAXIMUM	39.800	48.500	47.300	33.700	48.500
MINIMUM	29.400	26.000	30.800	33.300	26.000
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	35.000	34.323	34.933	0.000	34.529
STD.DEV.	2.243	2.360	2.422	0.000	2.346
MAXIMUM	38.900	41.100	39.200	0.000	41.100
MINIMUM	29.500	29.800	31.000	0.000	29.500
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	34.333	34.256	35.633	0.000	34.511
STD.DEV.	2.892	2.469	2.957	0.000	2.574
MAXIMUM	37.800	39.800	38.700	0.000	39.800
MINIMUM	30.700	32.000	32.800	0.000	30.700
CASES INCL	6	9	3	0	18

ANKLE CIRCUMFERENCE(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	22.783	22.459	22.307	22.531	22.479
STD.DEV.	1.824	1.699	1.680	1.494	1.672
MAXIMUM	33.500	32.500	33.400	29.900	33.500
MINIMUM	19.100	18.400	17.200	15.100	15.100
CASES INCL	162	389	316	258	1125
WHITE MALES:					
MEAN	22.876	22.699	22.554	22.590	22.655
STD.DEV.	1.625	1.634	1.800	1.515	1.637
MAXIMUM	33.500	32.100	33.400	29.900	33.500
MINIMUM	19.100	18.500	17.200	15.100	15.100
CASES INCL	101	203	164	225	693
BLACK MALES:					
MEAN	22.283	22.188	22.236	22.320	22.225
STD.DEV.	1.431	1.704	1.365	1.341	1.540
MAXIMUM	26.400	32.500	26.400	25.700	32.500
MINIMUM	19.800	18.800	19.300	20.300	18.800
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	23.031	22.348	21.800	22.010	22.167
STD.DEV.	1.861	1.792	1.345	1.593	1.638
MAXIMUM	27.200	31.300	24.800	24.300	31.300
MINIMUM	19.700	19.800	18.900	18.800	18.800
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	20.769	20.423	20.658	20.350	20.546
STD.DEV.	1.232	1.273	1.114	0.212	1.235
MAXIMUM	25.400	24.500	23.400	20.500	25.400
MINIMUM	18.600	17.800	18.400	20.200	17.800
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	21.024	20.616	20.688	20.350	20.730
STD.DEV.	1.278	1.424	1.141	0.212	1.323
MAXIMUM	25.400	24.500	23.400	20.500	25.400
MINIMUM	18.800	17.800	18.400	20.200	17.800
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	20.431	20.227	20.640	0.000	20.325
STD.DEV.	0.939	1.060	1.042	0.000	1.039
MAXIMUM	22.000	23.300	22.100	0.000	23.300
MINIMUM	18.600	18.600	19.000	0.000	18.600
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	20.667	20.556	20.533	0.000	20.589
STD.DEV.	1.414	1.117	1.762	0.000	1.242
MAXIMUM	22.600	21.700	21.600	0.000	22.600
MINIMUM	18.800	19.000	18.500	0.000	18.500
CASES INCL	6	9	3	0	18

BIACROMIAL DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	40.466	39.959	37.933	41.574	39.831
STD.DEV.	2.627	3.259	3.270	2.742	3.339
MAXIMUM	45.800	46.600	47.600	49.200	49.200
MINIMUM	32.100	23.500	25.500	29.500	23.500
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	40.398	40.088	38.379	41.783	40.276
STD.DEV.	2.520	3.228	3.547	2.601	3.275
MAXIMUM	45.800	46.000	47.600	46.700	47.600
MINIMUM	32.400	24.500	25.500	29.500	24.500
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	40.480	39.719	37.765	40.113	39.290
STD.DEV.	3.014	3.470	2.778	3.950	3.379
MAXIMUM	44.600	45.400	45.100	49.200	49.200
MINIMUM	32.100	23.500	31.000	34.000	23.500
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	41.275	39.944	37.060	40.720	38.913
STD.DEV.	2.195	2.865	2.859	2.034	3.188
MAXIMUM	44.500	46.600	44.500	44.100	46.600
MINIMUM	37.500	33.600	31.600	37.500	31.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	33.531	33.235	33.021	32.050	33.253
STD.DEV.	2.989	2.571	2.798	0.212	2.703
MAXIMUM	41.100	40.100	43.100	32.200	43.100
MINIMUM	27.500	27.500	27.900	31.900	27.500
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	33.700	33.357	32.270	32.050	33.182
STD.DEV.	2.634	2.780	1.977	0.212	2.604
MAXIMUM	41.100	40.100	36.300	32.200	41.100
MINIMUM	29.600	27.500	27.900	31.900	27.500
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	33.244	33.238	34.440	0.000	33.425
STD.DEV.	3.687	2.284	3.729	0.000	2.806
MAXIMUM	41.100	39.500	43.100	0.000	43.100
MINIMUM	28.600	28.400	29.200	0.000	28.400
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	33.150	31.611	34.500	0.000	32.606
STD.DEV.	3.745	1.782	3.422	0.000	2.874
MAXIMUM	37.500	35.300	37.000	0.000	37.500
MINIMUM	27.500	29.000	30.600	0.000	27.500
CASES INCL	6	9	3	0	18

CHEST DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	28.714	28.306	27.370	30.547	28.616
STD.DEV.	2.437	2.968	3.299	2.585	3.131
MAXIMUM	36.600	39.000	47.300	39.500	47.300
MINIMUM	19.500	19.400	20.400	19.000	19.000
CASES INCL	161	388	318	259	1126
WHITE MALES:					
MEAN	29.064	29.005	28.096	30.798	29.380
STD.DEV.	2.102	2.987	2.982	2.439	2.893
MAXIMUM	33.100	39.000	35.100	39.500	39.500
MINIMUM	20.600	21.700	20.700	19.000	19.000
CASES INCL	101	202	166	226	695
BLACK MALES:					
MEAN	27.722	27.163	26.561	28.213	27.138
STD.DEV.	2.747	2.788	3.939	3.167	3.201
MAXIMUM	36.300	32.000	47.300	33.900	47.300
MINIMUM	19.500	19.400	21.100	22.100	19.400
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	29.127	28.522	26.700	29.950	27.903
STD.DEV.	2.842	2.557	2.962	1.946	2.932
MAXIMUM	36.600	34.000	32.500	32.000	36.600
MINIMUM	24.200	21.800	20.400	26.700	20.400
CASES INCL	15	50	58	10	133
ALL FEMALES:					
MEAN	22.448	21.580	21.604	18.450	21.760
STD.DEV.	3.172	2.606	2.707	1.909	2.785
MAXIMUM	29.600	28.300	28.700	19.800	29.600
MINIMUM	16.800	17.400	17.500	17.100	16.800
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	22.695	22.120	20.982	18.450	21 960
STD.DEV.	2.935	2.826	2.106	1.909	2.776
MAXIMUM	29.600	28.300	26.800	19.800	29.600
MINIMUM	16.800	18.400	17.500	17 100	16 800
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	21.881	20.979	22.667	0.000	21 389
STD.DEV	3.547	2.218	3.349	0 000	2 710
MAXIMUM	28.700	26.700	28.700	0 000	28 700
MINIMUM	17.200	17 700	18 700	0 000	17 200
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	21.633	20 722	23.067	0 000	21 417
STD.DEV	3.986	2.236	4 392	0 000	3 190
MAXIMUM	26.700	25.600	25 800	0 000	26 700
MINIMUM	17 300	17 400	18 000	0 000	17 300
CASES INCL	6	9	3	0	18

BIILIAC DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	26.675	26.027	24.877	28.594	26.386
STD.DEV.	2.487	2.797	3.103	2.313	3.055
MAXIMUM	36.300	36.100	33.400	35.100	36.300
MINIMUM	16.100	18.400	17.900	20.900	16.100
CASES INCL	161	388	318	259	1126
WHITE MALES:					
MEAN	27.042	26.920	25.855	28.896	27.327
STD.DEV.	2.508	2.636	2.903	2.077	2.775
MAXIMUM	36.300	36.100	32.400	35.100	36.300
MINIMUM	16.100	19.000	20.500	21.000	16.100
CASES INCL	100	202	166	226	694
BLACK MALES:					
MEAN	25.527	24.329	23.489	25.900	24.367
STD.DEV.	2.329	2.489	3.055	3.014	2.767
MAXIMUM	29.200	29.500	33.400	31.600	33.400
MINIMUM	18.600	18.400	17.900	21.200	17.900
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	27.125	26.786	24.055	27.630	25.707
STD.DEV.	1.931	2.266	2.913	2.227	2.904
MAXIMUM	32.000	31.300	31.200	30.600	32.000
MINIMUM	24.100	20.800	19.100	23.200	19.100
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	24.415	23.465	24.119	24.500	23.817
STD.DEV.	2.764	2.729	2.226	0.424	2.661
MAXIMUM	30.000	30.700	29.400	24.800	30.700
MINIMUM	19.000	18.000	20.000	24.200	18.000
CASES INCL	62	154	52	2	270
WHITE FEMALES:					
MEAN	24.916	24.134	23.855	24.500	24.272
STD.DEV.	2.302	2.785	1.899	0.424	2.489
MAXIMUM	29.500	30.700	29.400	24.800	30.700
MINIMUM	21.000	19.000	21.400	24.200	19.000
CASES INCL	37	76	33	2	148
BLACK FEMALES					
MEAN	23.050	22.708	24.553	0.000	23.053
STD DEV	3.090	2.546	2.592	0.000	2.703
MAXIMUM	29.700	29.800	29.000	0.000	29.800
MINIMUM	19.000	18.000	20.000	0.000	18.000
CASES INCL	16	65	15	0	96
HISPANIC FEMALES					
MEAN	24.633	22.789	25.200	0.000	23.806
STD.DEV	3.515	1.589	4.095	0.000	2.816
MAXIMUM	30.000	25.800	28.000	0.000	30.000
MINIMUM	21.500	20.700	20.500	0.000	20.500
CASES INCL	6	9	3	0	18

BIDELTOID DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	45.592	45.244	44.260	45.744	45.131
STD.DEV.	2.576	3.403	3.438	2.764	3.216
MAXIMUM	54.300	53.200	53.300	57.300	57.300
MINIMUM	37.700	25.600	22.600	35.200	22.600
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	45.648	45.372	44.605	45.753	45.353
STD.DEV.	2.380	3.630	3.300	2.668	3.120
MAXIMUM	50.800	53.000	53.300	51.500	53.300
MINIMUM	38.400	25.600	36.500	35.200	25.600
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	45.180	45.038	44.332	45.907	44.904
STD.DEV.	2.887	3.006	2.868	4.000	3.024
MAXIMUM	50.600	53.200	51.000	57.300	57.300
MINIMUM	37.700	37.200	36.300	41.500	36.300
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	46.650	45.114	43.353	46.130	44.611
STD.DEV.	2.888	3.350	4.355	1.204	3.842
MAXIMUM	54.300	52.700	51.000	48.000	54.300
MINIMUM	43.200	36.000	22.600	44.700	22.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	38.727	37.884	38.252	35.650	38.131
STD.DEV.	3.645	2.932	3.060	3.041	3.142
MAXIMUM	47.600	46.000	47.200	37.800	47.600
MINIMUM	33.000	31.800	27.600	33.500	27.600
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	38.922	38.158	37.655	35.650	38.203
STD.DEV.	3.347	3.221	2.222	3.041	3.076
MAXIMUM	47.000	46.000	42.700	37.800	47.000
MINIMUM	34.300	32.400	33.200	33.500	32.400
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	37.931	37.597	39.160	0.000	37.894
STD.DEV.	3.993	2.590	4.235	0.000	3.156
MAXIMUM	47.600	44.700	47.200	0.000	47.600
MINIMUM	33.000	31.800	27.600	0.000	27.600
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	38.717	37.111	40.267	0.000	38.172
STD.DEV.	4.197	1.923	4.008	0.000	3.207
MAXIMUM	44.100	41.200	43.200	0.000	44.100
MINIMUM	33.200	35.000	35.700	0.000	33.200
CASES INCL	6	9	3	0	18

BITROCHANTER DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	31.525	31.005	29.478	32.716	31.042
STD.DEV.	2.186	3.131	3.123	2.561	3.110
MAXIMUM	37.600	48.900	39.600	39.700	48.900
MINIMUM	24.100	21.500	23.000	19.900	19.900
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	31.737	31.625	30.216	33.030	31.761
STD.DEV.	2.059	2.801	2.957	2.355	2.804
MAXIMUM	35.600	38.200	36.100	37.900	38.200
MINIMUM	24.100	24.000	23.000	19.900	19.900
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	30.712	29.841	28.764	30.727	29.716
STD.DEV.	2.232	3.606	3.166	3.532	3.344
MAXIMUM	34.700	48.900	38.200	39.700	48.900
MINIMUM	24.200	21.500	23.500	26.800	21.500
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	32.162	31.506	28.553	31.050	30.272
STD.DEV.	2.390	2.214	3.171	1.893	3.056
MAXIMUM	37.600	35.600	39.600	33.400	39.600
MINIMUM	27.000	26.200	23.400	27.600	23.400
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	28.784	27.750	28.837	26.650	28.187
STD.DEV.	3.236	2.877	2.483	0.495	2.923
MAXIMUM	35.400	35.100	35.300	27.000	35.400
MINIMUM	23.400	22.100	25.000	26.300	22.100
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	28.927	28.496	28.139	26.650	28.499
STD.DEV.	2.825	3.027	1.712	0.495	2.718
MAXIMUM	34.700	35.100	32.800	27.000	35.100
MINIMUM	25.000	23.400	25.200	26.300	23.400
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	28.506	27.062	30.013	0.000	27.757
STD.DEV.	3.919	2.633	2.618	0.000	3.052
MAXIMUM	35.400	34.400	35.300	0.000	35.400
MINIMUM	23.400	22.100	25.000	0.000	22.100
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	28.467	26.511	31.500	0.000	27.994
STD.DEV.	3.995	2.044	5.462	0.000	3.685
MAXIMUM	34.500	31.200	34.900	0.000	34.900
MINIMUM	25.000	23.800	25.200	0.000	23.800
CASES INCL	6	9	3	0	18

ELBOW DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	6.658	6.620	6.642	6.788	6.670
STD.DEV.	0.501	0.556	0.536	0.488	0.531
MAXIMUM	8.000	9.000	8.000	9.000	9.000
MINIMUM	5.000	5.000	5.000	6.000	5.000
CASES INCL	161	387	318	259	1125
WHITE MALES:					
MEAN	6.670	6.692	6.729	6.819	6.739
STD.DEV.	0.473	0.552	0.509	0.479	0.510
MAXIMUM	7.000	9.000	8.000	9.000	9.000
MINIMUM	6.000	5.000	5.000	6.000	5.000
CASES INCL	100	201	166	226	693
BLACK MALES:					
MEAN	6.683	6.605	6.693	6.933	6.663
STD.DEV.	0.521	0.507	0.519	0.258	0.506
MAXIMUM	7.000	8.000	8.000	7.000	8.000
MINIMUM	5.000	6.000	6.000	6.000	5.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	6.563	6.480	6.397	6.300	6.440
STD.DEV.	0.629	0.580	0.528	0.483	0.555
MAXIMUM	8.000	8.000	7.000	7.000	8.000
MINIMUM	6.000	5.000	5.000	6.000	5.000
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	5.661	5.639	5.750	6.000	5.668
STD.DEV.	0.477	0.482	0.480	0.000	0.480
MAXIMUM	6.000	6.000	7.000	6.000	7.000
MINIMUM	5.000	5.000	5.000	6.000	5.000
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	5.676	5.632	5.758	6.000	5.676
STD.DEV.	0.475	0.486	0.435	0.000	0.470
MAXIMUM	6.000	6.000	6.000	6.000	6.000
MINIMUM	5.000	5.000	5.000	6.000	5.000
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	5.625	5.667	5.667	0.000	5.660
STD.DEV.	0.500	0.475	0.617	0.000	0.498
MAXIMUM	6.000	6.000	7.000	0.000	7.000
MINIMUM	5.000	5.000	5.000	0.000	5.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	5.667	5.556	6.000	0.000	5.667
STD.DEV.	0.516	0.527	0.000	0.000	0.485
MAXIMUM	6.000	6.000	6.000	0.000	6.000
MINIMUM	5.000	5.000	6.000	0.000	5.000
CASES INCL	6	9	3	0	18

WRIST DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	5.675	5.700	5.691	5.887	5.737
STD.DEV.	0.328	0.344	0.384	0.343	0.362
MAXIMUM	6.600	7.100	6.900	8.200	8.200
MINIMUM	4.600	4.800	4.500	4.800	4.500
CASES INCL	162	388	318	259	1127
WHITE MALES:					
MEAN	5.682	5.747	5.761	5.909	5.794
STD.DEV.	0.304	0.366	0.400	0.332	0.365
MAXIMUM	6.500	7.100	6.900	8.200	8.200
MINIMUM	5.000	4.900	4.500	4.900	4.500
CASES INCL	101	202	166	226	695
BLACK MALES:					
MEAN	5.654	5.656	5.641	5.873	5.664
STD.DEV.	0.383	0.302	0.346	0.413	0.338
MAXIMUM	6.600	6.400	6.400	6.600	6.600
MINIMUM	4.600	5.000	4.800	5.400	4.600
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	5.656	5.632	5.553	5.690	5.605
STD.DEV.	0.358	0.317	0.347	0.321	0.335
MAXIMUM	6.400	6.300	6.200	6.400	6.400
MINIMUM	5.000	4.800	4.500	5.300	4.500
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	4.937	4.913	4.986	5.000	4.933
STD.DEV.	0.291	0.316	0.265	0.141	0.300
MAXIMUM	5.400	5.800	5.600	5.100	5.800
MINIMUM	4.100	4.000	4.400	4.900	4.000
CASES INCL	62	155	51	2	270
WHITE FEMALES:					
MEAN	4.978	4.893	5.006	5.000	4.941
STD.DEV.	0.236	0.310	0.230	0.141	0.278
MAXIMUM	5.300	5.500	5.500	5.100	5.500
MINIMUM	4.400	4.000	4.500	4.900	4.000
CASES INCL	37	76	32	2	147
BLACK FEMALES:					
MEAN	4.825	4.938	4.987	0.000	4.927
STD.DEV.	0.391	0.326	0.338	0.000	0.339
MAXIMUM	5.400	5.800	5.600	0.000	5.800
MINIMUM	4.100	4.000	4.400	0.000	4.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	4.933	4.789	4.800	0.000	4.839
STD.DEV.	0.339	0.247	0.265	0.000	0.275
MAXIMUM	5.300	5.100	5.100	0.000	5.300
MINIMUM	4.500	4.300	4.600	0.000	4.300
CASES INCL	6	9	3	0	18

KNEE DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	8.739	8.737	8.866	8.729	8.772
STD.DEV.	0.550	0.586	0.599	0.578	0.585
MAXIMUM	10.500	10.500	10.800	10.600	10.800
MINIMUM	7.300	6.600	6.300	7.200	6.300
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	8.731	8.746	8.877	8.728	8.769
STD.DEV.	0.555	0.606	0.625	0.584	0.598
MAXIMUM	10.000	10.500	10.800	10.600	10.800
MINIMUM	7.300	6.600	6.300	7.200	6.300
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	8.800	8.708	8.929	8.953	8.802
STD.DEV.	0.524	0.576	0.564	0.588	0.571
MAXIMUM	9.800	10.000	10.500	10.200	10.500
MINIMUM	7.500	7.000	7.500	8.000	7.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	8.713	8.806	8.841	8.650	8.799
STD.DEV.	0.633	0.489	0.553	0.438	0.530
MAXIMUM	10.500	9.800	10.000	9.100	10.500
MINIMUM	7.800	7.300	7.600	7.900	7.300
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	8.194	8.168	8.419	8.150	8.222
STD.DEV.	0.488	0.524	0.485	0.212	0.514
MAXIMUM	9.200	10.400	9.700	8.300	10.400
MINIMUM	7.000	6.400	7.400	8.000	6.400
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	8.151	8.189	8.412	8.150	8.229
STD.DEV.	0.449	0.541	0.493	0.212	0.512
MAXIMUM	8.900	9.600	9.600	8.300	9.600
MINIMUM	7.100	6.400	7.400	8.000	6.400
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	8.144	8.159	8.367	0.000	8.189
STD.DEV.	0.592	0.519	0.478	0.000	0.526
MAXIMUM	9.200	10.400	9.700	0.000	10.400
MINIMUM	7.000	6.700	7.800	0.000	6.700
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	8.300	8.156	8.767	0.000	8.306
STD.DEV.	0.363	0.480	0.569	0.000	0.484
MAXIMUM	8.800	9.200	9.400	0.000	9.400
MINIMUM	7.900	7.500	8.300	0.000	7.500
CASES INCL	6	9	3	0	18

ANKLE DIAMETER(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	7.132	7.071	7.089	7.265	7.129
STD.DEV.	0.544	0.553	0.464	0.431	0.506
MAXIMUM	8.600	9.600	9.700	8.600	9.700
MINIMUM	2.800	2.400	5.700	6.000	2.400
CASES INCL	162	389	317	259	1127
WHITE MALES:					
MEAN	7.097	7.114	7.154	7.290	7.178
STD.DEV.	0.582	0.546	0.486	0.424	0.506
MAXIMUM	8.100	9.600	9.700	8.600	9.700
MINIMUM	2.800	4.200	5.800	6.000	2.800
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	7.129	7.106	7.103	7.273	7.119
STD.DEV.	0.435	0.420	0.440	0.392	0.426
MAXIMUM	8.100	8.500	9.100	7.900	9.100
MINIMUM	5.900	5.300	6.100	6.800	5.300
CASES INCL	41	124	74	15	254
HISPANIC MALES:					
MEAN	7.313	6.950	6.931	6.940	6.984
STD.DEV.	0.545	0.456	0.416	0.450	0.461
MAXIMUM	8.600	7.800	7.800	7.400	8.600
MINIMUM	6.400	5.000	5.700	6.100	5.000
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	6.258	6.304	6.269	6.550	6.289
STD.DEV.	0.315	0.364	0.353	0.071	0.350
MAXIMUM	7.100	7.200	7.400	6.600	7.400
MINIMUM	5.600	5.400	5.500	6.500	5.400
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	6.284	6.305	6.218	6.550	6.284
STD.DEV.	0.298	0.368	0.336	0.071	0.343
MAXIMUM	7.000	7.200	7.100	6.600	7.200
MINIMUM	5.800	5.600	5.500	6.500	5.500
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	6.281	6.326	6.373	0.000	6.326
STD.DEV.	0.380	0.367	0.392	0.000	0.370
MAXIMUM	7.100	7.200	7.400	0.000	7.400
MINIMUM	5.600	5.400	5.700	0.000	5.400
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	6.150	6.178	6.400	0.000	6.206
STD.DEV.	0.226	0.286	0.346	0.000	0.275
MAXIMUM	6.400	6.500	6.600	0.000	6.600
MINIMUM	5.800	5.600	6.000	0.000	5.600
CASES INCL	6	9	3	0	18

ENDOMORPHIC SOMATOTYPE COMPONENT GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	4.238	4.439	5.027	5.266	4.767
STD.DEV.	1.335	1.561	1.752	1.235	1.568
MAXIMUM	8.000	8.500	8.500	8.500	8.500
MINIMUM	1.500	1.000	1.000	0.500	0.500
CASES INCL.	162	385	318	259	1124
WHITE MALES:					
MEAN	4.406	4.602	5.265	5.268	4.949
STD.DEV.	1.311	1.448	1.580	1.220	1.437
MAXIMUM	8.000	8.000	8.000	8.000	8.000
MINIMUM	2.000	1.500	1.500	0.500	0.500
CASES INCL.	101	201	166	226	694
BLACK MALES:					
MEAN	3.732	3.996	4.433	5.000	4.141
STD.DEV.	1.323	1.586	2.004	1.452	1.699
MAXIMUM	7.500	8.500	8.500	8.500	8.500
MINIMUM	1.500	1.000	1.000	3.000	1.000
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	4.563	4.896	5.241	5.450	5.049
STD.DEV.	1.250	1.640	1.644	1.257	1.580
MAXIMUM	8.000	8.000	8.000	7.000	8.000
MINIMUM	3.000	2.000	1.000	3.000	1.000
CASES INCL.	16	48	58	10	132
ALL FEMALES:					
MEAN	4.976	4.416	4.942	5.500	4.653
STD.DEV.	1.386	1.450	1.530	2.121	1.473
MAXIMUM	8.000	8.500	8.000	7.000	8.500
MINIMUM	2.000	1.500	1.500	4.000	1.500
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	5.095	4.566	4.894	5.500	4.784
STD.DEV.	1.195	1.530	1.499	2.121	1.457
MAXIMUM	8.000	8.500	7.500	7.000	8.500
MINIMUM	2.500	1.500	1.500	4.000	1.500
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	4.594	4.182	4.867	0.000	4.356
STD.DEV.	1.685	1.320	1.727	0.000	1.459
MAXIMUM	7.500	7.500	8.000	0.000	8.000
MINIMUM	2.000	1.500	1.500	0.000	1.500
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	5.000	4.722	5.167	0.000	4.889
STD.DEV.	1.414	1.622	0.764	0.000	1.389
MAXIMUM	7.500	7.500	6.000	0.000	7.500
MINIMUM	3.500	2.500	4.500	0.000	2.500
CASES INCL.	6	9	3	0	18

MESOMORPHIC SOMATOTYPE COMPONENT GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	3.636	3.787	4.101	3.598	3.810
STD.DEV.	0.994	1.239	1.214	1.045	1.171
MAXIMUM	6.500	7.000	8.000	7.000	8.000
MINIMUM	0.500	0.500	1.000	1.000	0.500
CASES INCL	162	385	318	259	1124
WHITE MALES:					
MEAN	3.569	3.692	3.916	3.524	3.673
STD.DEV.	1.032	1.232	1.211	1.010	1.138
MAXIMUM	6.500	7.000	7.500	6.500	7.500
MINIMUM	0.500	0.500	1.000	1.000	0.500
CASES INCL	101	201	166	226	694
BLACK MALES:					
MEAN	3.878	3.875	4.347	4.233	4.035
STD.DEV.	0.835	1.190	1.238	1.266	1.174
MAXIMUM	6.000	7.000	8.000	7.000	8.000
MINIMUM	2.000	1.000	2.500	2.000	1.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	3.500	3.948	4.293	3.700	4.027
STD.DEV.	1.095	1.260	1.132	1.033	1.189
MAXIMUM	6.000	6.500	7.000	5.500	7.000
MINIMUM	1.500	1.500	1.500	2.000	1.500
CASES INCL	16	48	58	10	132
ALL FEMALES:					
MEAN	2.895	2.848	3.144	3.250	2.919
STD.DEV.	0.937	1.085	1.059	1.061	1.048
MAXIMUM	5.500	7.000	6.500	4.000	7.000
MINIMUM	1.000	0.500	1.000	2.500	0.500
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	2.743	2.770	3.121	3.250	2.848
STD.DEV.	0.983	1.150	1.125	1.061	1.105
MAXIMUM	5.500	7.000	6.500	4.000	7.000
MINIMUM	1.000	0.500	1.000	2.500	0.500
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	2.938	2.841	3.033	0.000	2.887
STD.DEV.	0.793	0.895	0.915	0.000	0.877
MAXIMUM	4.500	5.000	4.500	0.000	5.000
MINIMUM	1.500	1.000	1.500	0.000	1.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	3.250	3.444	3.667	0.000	3.417
STD.DEV.	0.880	1.509	1.258	0.000	1.228
MAXIMUM	4.500	6.000	5.000	0.000	6.000
MINIMUM	2.500	1.000	2.500	0.000	1.000
CASES INCL	6	9	3	0	18

ECTOMORPHIC SOMATOTYPE COMPONENT GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	2.154	1.958	1.524	1.656	1.794
STD.DEV.	0.991	1.153	1.072	0.807	1.059
MAXIMUM	5.000	6.000	5.000	4.500	6.000
MINIMUM	0.500	0.500	0 500	0.500	0.500
CASES INCL	162	385	218	259	1124
WHITE MALES:					
MEAN	2.149	2.027	1.566	1.704	1.829
STD.DEV.	1.016	1.199	1.063	0.807	1.045
MAXIMUM	5.000	6.000	4.500	4.500	6.000
MINIMUM	0.500	0.500	0.500	0.500	0.500
CASES INCL	101	201	166	226	694
BLACK MALES:					
MEAN	2.098	1.940	1.560	1.567	1.831
STD.DEV.	0.889	1.031	1.062	0.863	1.026
MAXIMUM	4.500	4.500	4.500	3.000	4.500
MINIMUM	0.500	0.500	0.500	0.500	0.500
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	2.219	1.719	1.310	1.150	1.557
STD.DEV.	1.048	1.166	0.977	0.626	1.077
MAXIMUM	4.500	4.500	5.000	2.500	5.000
MINIMUM	0.500	0.500	0.500	0.500	0.500
CASES INCL	16	48	58	10	132
ALL FEMALES:					
MEAN	1.919	2.042	1.721	1.500	1.948
STD.DEV.	1.067	1.063	1.054	1.414	1.070
MAXIMUM	5.000	5.000	4.500	2.500	5.000
MINIMUM	0.500	0.500	0.500	0.500	0.500
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	2.081	2.118	1.742	1.500	2.017
STD.DEV.	1.182	1.101	1.083	1.414	1.121
MAXIMUM	5.000	5.000	4.500	2.500	5.000
MINIMUM	0.500	0.500	0.500	0.500	0.500
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	1.750	2.038	1.700	0.000	1.938
STD.DEV.	1.049	0.990	1.115	0.000	1.019
MAXIMUM	4.500	5.000	4.500	0.000	5.000
MINIMUM	0.500	0.500	0.500	0.000	0.500
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	1.583	1.333	1.833	0.000	1.500
STD.DEV.	0.665	0.866	0.764	0.000	0.767
MAXIMUM	2.500	3.000	2.500	0.000	3.000
MINIMUM	1.000	0.500	1.000	0.000	0.500
CASES INCL	6	9	3	0	18

AVERAGE UNIFORM RATING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	3.367	3.389	3.157	3.346	3.311
STD.DEV.	0.492	0.579	0.733	0.563	0.619
MAXIMUM	4.400	5.000	4.600	5.000	5.000
MINIMUM	1.800	1.360	1.100	1.360	1.100
CASES INCL	147	349	281	214	991
WHITE MALES:					
MEAN	3.299	3.292	3.059	3.352	3.253
STD.DEV.	0.503	0.593	0.723	0.531	0.608
MAXIMUM	4.100	5.000	4.500	4.240	5.000
MINIMUM	1.800	1.400	1.100	1.450	1.100
CASES INCL	91	180	151	186	608
BLACK MALES:					
MEAN	3.519	3.600	3.309	3.519	3.501
STD.DEV.	0.414	0.561	0.806	0.857	0.646
MAXIMUM	4.400	5.000	4.600	5.000	5.000
MINIMUM	2.500	1.360	1.400	1.360	1.360
CASES INCL	39	112	63	14	228
HISPANIC MALES:					
MEAN	3.401	3.282	3.225	3.324	3.273
STD.DEV.	0.558	0.444	0.690	0.402	0.568
MAXIMUM	4.000	4.000	4.400	4.000	4.400
MINIMUM	1.800	2.100	1.330	2.910	1.330
CASES INCL	13	47	51	8	119
ALL FEMALES:					
MEAN	3.336	3.208	3.087	2.325	3.208
STD.DEV.	0.636	0.656	0.752	0.389	0.675
MAXIMUM	4.700	4.670	4.300	2.600	4.700
MINIMUM	1.200	1.500	1.200	2.050	1.200
CASES INCL	55	138	44	2	239
WHITE FEMALES:					
MEAN	3.325	3.215	3.197	2.325	3.224
STD.DEV.	0.696	0.740	0.714	0.389	0.725
MAXIMUM	4.700	4.670	4.300	2.600	4.700
MINIMUM	1.200	1.700	1.300	2.050	1.200
CASES INCL	31	71	27	2	131
BLACK FEMALES:					
MEAN	3.294	3.250	2.833	0.000	3.194
STD.DEV.	0.516	0.488	0.880	0.000	0.582
MAXIMUM	4.110	4.200	3.750	0.000	4.200
MINIMUM	2.200	2.090	1.200	0.000	1.200
CASES INCL	16	56	13	0	85
HISPANIC FEMALES:					
MEAN	3.582	3.194	2.963	0.000	3.277
STD.DEV.	0.694	0.757	0.183	0.000	0.668
MAXIMUM	4.600	4.330	3.170	0.000	4.600
MINIMUM	2.700	2.180	2.820	0.000	2.180
CASES INCL	5	7	3	0	15

AVERAGE SWIMSUIT RATING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	3.366	3.288	2.917	2.969	3.118
STD.DEV.	0.624	0.635	0.778	0.542	0.680
MAXIMUM	5.000	5.000	4.440	4.380	5.000
MINIMUM	1.630	1.330	1.000	1.000	1.000
CASES INCL	118	295	235	217	865
WHITE MALES:					
MEAN	3.284	3.146	2.786	2.979	3.018
STD.DEV.	0.596	0.621	0.716	0.521	0.630
MAXIMUM	5.000	5.000	4.130	4.380	5.000
MINIMUM	2.000	1.330	1.130	1.000	1.000
CASES INCL	68	148	129	192	537
BLACK MALES:					
MEAN	3.549	3.567	3.147	3.121	3.426
STD.DEV.	0.646	0.608	0.924	0.760	0.739
MAXIMUM	4.430	4.500	4.440	3.750	4.500
MINIMUM	1.630	1.630	1.000	1.000	1.000
CASES INCL	35	97	50	13	195
HISPANIC MALES:					
MEAN	3.379	3.167	3.073	2.766	3.128
STD.DEV.	0.668	0.568	0.730	0.288	0.645
MAXIMUM	4.500	4.330	4.280	3.130	4.500
MINIMUM	2.110	2.000	1.250	2.380	1.250
CASES INCL	13	39	40	7	99
ALL FEMALES:					
MEAN	3.125	3.284	2.813	2.165	3.150
STD.DEV.	0.720	0.732	0.823	1.181	0.772
MAXIMUM	4.380	5.000	4.000	3.000	5.000
MINIMUM	1.000	1.130	1.000	1.330	1.000
CASES INCL	48	127	41	2	218
WHITE FEMALES:					
MEAN	3.030	3.244	2.752	2.165	3.070
STD.DEV.	0.718	0.811	0.778	1.181	0.809
MAXIMUM	4.380	4.380	4.000	3.000	4.380
MINIMUM	1.000	1.130	1.110	1.330	1.000
CASES INCL	29	63	25	2	119
BLACK FEMALES:					
MEAN	3.294	3.430	2.838	0.000	3.305
STD.DEV.	0.712	0.562	0.949	0.000	0.695
MAXIMUM	4.220	5.000	4.000	0.000	5.000
MINIMUM	1.440	2.000	1.000	0.000	1.000
CASES INCL	13	53	14	0	80
HISPANIC FEMALES:					
MEAN	3.266	2.949	3.430	0.000	3.096
STD.DEV.	0.886	0.844	0.000	0.000	0.811
MAXIMUM	4.380	4.100	3.430	0.000	4.380
MINIMUM	2.000	1.780	3.430	0.000	1.780
CASES INCL	5	8	1	0	14

KRATING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	2.254	2.522	2.835	3.245	2.738
STD.DEV.	1.582	1.629	1.892	1.579	1.720
MAXIMUM	5.130	5.500	6.250	5.880	6.250
MINIMUM	0.000	0.000	0.000	0.000	0.000
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	2.206	2.578	3.087	3.269	2.870
STD.DEV.	1.690	1.733	1.843	1.531	1.732
MAXIMUM	5.000	5.500	6.130	5.830	6.130
MINIMUM	0.000	0.000	0.000	0.000	0.000
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	2.368	2.318	2.374	3.245	2.397
STD.DEV.	1.322	1.475	1.983	1.521	1.627
MAXIMUM	5.130	5.250	6.250	5.500	6.250
MINIMUM	0.000	0.000	0.000	0.000	0.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	2.433	2.734	2.638	3.010	2.677
STD.DEV.	1.455	1.641	1.898	2.101	1.758
MAXIMUM	4.890	4.780	5.630	4.880	5.630
MINIMUM	0.000	0.000	0.000	0.000	0.000
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	2.759	2.767	3.113	4.595	2.845
STD.DEV.	1.729	1.575	1.826	1.195	1.663
MAXIMUM	6.330	5.880	5.780	5.440	6.330
MINIMUM	0.000	0.000	0.000	3.750	0.000
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	2.893	2.866	3.026	4.595	2.931
STD.DEV.	1.772	1.604	1.916	1.195	1.713
MAXIMUM	6.330	5.880	5.780	5.440	6.330
MINIMUM	0.000	0.000	0.000	3.750	0.000
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	2.668	2.552	3.640	0.000	2.740
STD.DEV.	1.600	1.505	1.416	0.000	1.542
MAXIMUM	5.440	4.780	5.440	0.000	5.440
MINIMUM	0.000	0.000	0.000	0.000	0.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	2.895	3.530	1.190	0.000	2.928
STD.DEV.	1.639	1.463	2.061	0.000	1.739
MAXIMUM	4.630	4.780	3.570	0.000	4.780
MINIMUM	0.000	0.000	0.000	0.000	0.000
CASES INCL	6	9	3	0	18

VITAL CAPACITY(L) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	1.120	1.129	1.254	1.587	1.286
STD.DEV.	0.243	0.249	0.255	0.328	0.332
MAXIMUM	1.900	2.000	2.410	2.500	2.500
MINIMUM	0.610	0.550	0.610	0.890	0.550
CASES INCL.	128	313	301	258	1000
WHITE MALES:					
MEAN	1.151	1.183	1.338	1.624	1.378
STD.DEV.	0.265	0.243	0.261	0.316	0.341
MAXIMUM	1.900	1.860	2.410	2.500	2.500
MINIMUM	0.610	0.740	0.810	0.920	0.610
CASES INCL.	81	158	155	226	620
BLACK MALES:					
MEAN	1.028	1.060	1.163	1.464	1.114
STD.DEV.	0.186	0.229	0.211	0.335	0.248
MAXIMUM	1.460	1.620	1.820	2.210	2.210
MINIMUM	0.610	0.550	0.610	1.050	0.550
CASES INCL.	32	104	72	14	222
HISPANIC MALES:					
MEAN	1.121	1.120	1.181	1.313	1.165
STD.DEV.	0.187	0.285	0.210	0.377	0.255
MAXIMUM	1.500	2.000	1.770	1.980	2.000
MINIMUM	0.850	0.630	0.790	0.890	0.630
CASES INCL.	12	41	56	10	119
ALL FEMALES:					
MEAN	0.884	0.950	1.081	1.205	0.963
STD.DEV.	0.182	0.173	0.211	0.078	0.194
MAXIMUM	1.380	1.500	1.650	1.260	1.650
MINIMUM	0.500	0.450	0.550	1.150	0.450
CASES INCL.	57	150	51	2	260
WHITE FEMALES:					
MEAN	0.901	1.000	1.116	1.205	1.005
STD.DEV.	0.183	0.166	0.205	0.078	0.193
MAXIMUM	1.380	1.400	1.420	1.260	1.420
MINIMUM	0.560	0.610	0.550	1.150	0.550
CASES INCL.	34	75	32	2	143
BLACK FEMALES:					
MEAN	0.844	0.903	1.049	0.000	0.918
STD.DEV.	0.199	0.170	0.232	0.000	0.194
MAXIMUM	1.130	1.500	1.650	0.000	1.650
MINIMUM	0.500	0.450	0.710	0.000	0.450
CASES INCL.	14	62	15	0	91
HISPANIC FEMALES:					
MEAN	0.947	0.903	0.937	0.000	0.923
STD.DEV.	0.153	0.178	0.092	0.000	0.153
MAXIMUM	1.150	1.150	0.990	0.000	1.150
MINIMUM	0.710	0.730	0.830	0.000	0.710
CASES INCL.	6	9	3	0	18

RESIDUAL LUNG VOLUME(L) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	1.120	1.129	1.254	1.597	1.286
STD.DEV.	0.243	0.249	0.255	0.328	0.332
MAXIMUM	1.900	2.000	2.410	2.500	2.500
MINIMUM	0.610	0.550	0.610	0.890	0.550
CASES INCL	128	313	301	258	1000
WHITE MALES:					
MEAN	1.151	1.183	1.338	1.624	1.378
STD.DEV.	0.265	0.243	0.261	0.316	0.341
MAXIMUM	1.900	1.860	2.410	2.500	2.500
MINIMUM	0.610	0.740	0.810	0.920	0.610
CASES INCL	81	158	155	226	620
BLACK MALES:					
MEAN	1.028	1.060	1.163	1.464	1.114
STD.DEV.	0.186	0.229	0.211	0.335	0.248
MAXIMUM	1.460	1.620	1.820	2.210	2.210
MINIMUM	0.610	0.550	0.610	1.050	0.550
CASES INCL	32	104	72	14	222
HISPANIC MALES:					
MEAN	1.121	1.120	1.181	1.313	1.165
STD.DEV.	0.187	0.285	0.210	0.377	0.255
MAXIMUM	1.500	2.000	1.770	1.980	2.000
MINIMUM	0.850	0.630	0.790	0.890	0.630
CASES INCL	12	41	56	10	119
ALL FEMALES:					
MEAN	0.884	0.950	1.081	1.205	0.963
STD.DEV.	0.182	0.173	0.211	0.078	0.194
MAXIMUM	1.380	1.500	1.650	1.260	1.650
MINIMUM	0.500	0.450	0.550	1.150	0.450
CASES INCL	57	150	51	2	260
WHITE FEMALES:					
MEAN	0.901	1.000	1.116	1.205	1.005
STD.DEV.	0.183	0.166	0.205	0.078	0.193
MAXIMUM	1.380	1.400	1.420	1.260	1.420
MINIMUM	0.560	0.610	0.550	1.150	0.550
CASES INCL	34	75	32	2	143
BLACK FEMALES:					
MEAN	0.844	0.903	1.049	0.000	0.918
STD.DEV.	0.199	0.170	0.232	0.000	0.194
MAXIMUM	1.130	1.500	1.650	0.000	1.650
MINIMUM	0.500	0.450	0.710	0.000	0.450
CASES INCL	14	62	15	0	91
HISPANIC FEMALES:					
MEAN	0.947	0.903	0.937	0.000	0.923
STD.DEV.	0.153	0.178	0.092	0.000	0.153
MAXIMUM	1.150	1.150	0.990	0.000	1.150
MINIMUM	0.710	0.730	0.830	0.000	0.710
CASES INCL	6	9	3	0	18

AVERAGE DENSITY(G/CC) FROM HYDROSTATIC WEIGHTING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	1.061	1.058	1.047	1.044	1.052
STD.DEV.	0.013	0.015	0.016	0.011	0.016
MAXIMUM	1.084	1.101	1.091	1.078	1.101
MINIMUM	1.018	1.020	1.012	1.011	1.011
CASES INCL	161	389	318	258	1126
WHITE MALES:					
MEAN	1.059	1.055	1.043	1.044	1.049
STD.DEV.	0.012	0.013	0.013	0.011	0.014
MAXIMUM	1.084	1.082	1.080	1.078	1.084
MINIMUM	1.018	1.020	1.012	1.011	1.011
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	1.067	1.065	1.057	1.052	1.062
STD.DEV.	0.013	0.015	0.017	0.010	0.016
MAXIMUM	1.083	1.101	1.091	1.068	1.101
MINIMUM	1.019	1.020	1.018	1.033	1.018
CASES INCL	40	124	75	14	253
HISPANIC MALES:					
MEAN	1.059	1.054	1.045	1.039	1.050
STD.DEV.	0.014	0.015	0.013	0.010	0.015
MAXIMUM	1.075	1.089	1.075	1.053	1.089
MINIMUM	1.026	1.027	1.019	1.024	1.019
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	1.036	1.038	1.030	1.025	1.036
STD.DEV.	0.011	0.013	0.015	0.022	0.013
MAXIMUM	1.065	1.072	1.087	1.041	1.087
MINIMUM	1.004	0.990	1.006	1.010	0.990
CASES INCL	60	153	51	2	266
WHITE FEMALES:					
MEAN	1.036	1.036	1.030	1.025	1.035
STD.DEV.	0.012	0.014	0.012	0.022	0.013
MAXIMUM	1.058	1.063	1.054	1.041	1.063
MINIMUM	1.004	0.990	1.013	1.010	0.990
CASES INCL	37	76	32	2	147
BLACK FEMALES:					
MEAN	1.036	1.040	1.031	0.000	1.038
STD.DEV.	0.009	0.010	0.021	0.000	0.013
MAXIMUM	1.056	1.072	1.087	0.000	1.087
MINIMUM	1.024	1.021	1.006	0.000	1.006
CASES INCL	14	64	15	0	93
HISPANIC FEMALES:					
MEAN	1.036	1.035	1.034	0.000	1.035
STD.DEV.	0.011	0.013	0.007	0.000	0.011
MAXIMUM	1.048	1.057	1.042	0.000	1.057
MINIMUM	1.022	1.019	1.028	0.000	1.019
CASES INCL	6	9	3	0	18

PERCENT BODYFAT FROM HYDROSTATIC WEIGHING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	16.598	17.959	22.869	24.179	20.576
STD.DEV.	5.765	6.525	6.983	5.172	6.954
MAXIMUM	36.060	35.150	38.990	39.660	39.660
MINIMUM	6.600	-0.290	3.750	9.010	-0.290
CASES INCL	161	389	318	258	1126
WHITE MALES:					
MEAN	17.612	19.412	24.865	24.320	22.045
STD.DEV.	5.485	5.719	5.035	5.185	6.297
MAXIMUM	36.060	35.060	38.990	39.660	39.660
MINIMUM	6.600	7.660	8.460	9.010	6.600
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	13.965	14.957	18.395	20.736	16.139
STD.DEV.	5.709	6.778	7.708	4.423	7.075
MAXIMUM	35.820	35.150	36.150	29.000	36.150
MINIMUM	6.980	-0.290	3.750	13.570	-0.290
CASES INCL	40	124	75	14	253
HISPANIC MALES:					
MEAN	17.423	19.627	23.779	26.268	21.657
STD.DEV.	6.089	6.715	6.026	4.453	6.706
MAXIMUM	32.500	32.030	35.820	33.540	35.820
MINIMUM	10.550	4.630	10.470	20.130	4.630
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	27.925	27.034	30.541	32.895	27.951
STD.DEV.	5.217	5.869	6.726	10.189	6.059
MAXIMUM	42.880	50.100	41.900	40.100	50.100
MINIMUM	14.920	11.710	5.380	25.690	5.380
CASES INCL	60	153	51	2	266
WHITE FEMALES:					
MEAN	28.040	27.687	30.763	32.895	28.516
STD.DEV.	5.436	6.528	5.510	10.189	6.174
MAXIMUM	42.880	50.100	38.890	40.100	50.100
MINIMUM	17.860	15.750	19.460	25.690	15.750
CASES INCL	37	76	32	2	147
BLACK FEMALES:					
MEAN	27.949	26.132	30.167	0.000	27.056
STD.DEV.	3.963	4.731	9.542	0.000	5.805
MAXIMUM	33.540	34.820	41.900	0.000	41.900
MINIMUM	18.790	11.710	5.380	0.000	5.380
CASES INCL	14	64	15	0	93
HISPANIC FEMALES:					
MEAN	27.927	28.506	28.943	0.000	28.386
STD.DEV.	5.019	6.084	3.430	0.000	5.133
MAXIMUM	34.250	35.820	31.520	0.000	35.820
MINIMUM	22.100	18.350	25.050	0.000	18.350
CASES INCL	6	9	3	0	18

FAT FREE MASS(KG) FROM HYDROSTATIC WEIGHING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	60.560	60.541	60.723	61.255	60.759
STD.DEV.	6.375	7.425	8.180	6.573	7.321
MAXIMUM	75.100	83.400	95.300	77.600	95.300
MINIMUM	41.300	38.600	36.900	37.700	36.900
CASES INCL	161	389	318	258	1126
WHITE MALES:					
MEAN	59.986	60.182	60.408	61.446	60.618
STD.DEV.	5.420	7.207	8.256	6.296	6.977
MAXIMUM	70.700	83.400	95.300	77.400	95.300
MINIMUM	48.300	41.100	36.900	37.700	36.900
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	62.590	62.446	64.632	64.707	63.242
STD.DEV.	7.447	7.434	7.180	6.963	7.367
MAXIMUM	75.100	82.700	82.900	77.600	82.900
MINIMUM	41.300	43.700	46.600	54.700	41.300
CASES INCL	40	124	75	14	253
HISPANIC MALES:					
MEAN	59.787	57.970	57.867	56.960	58.067
STD.DEV.	7.172	7.002	6.947	7.137	6.962
MAXIMUM	73.300	76.100	76.200	66.000	76.200
MINIMUM	45.500	38.600	41.500	44.200	38.600
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	43.198	43.124	44.031	39.250	43.286
STD.DEV.	4.642	4.970	4.946	1.485	4.882
MAXIMUM	54.400	67.000	57.600	40.300	67.000
MINIMUM	33.700	33.900	35.200	38.200	33.700
CASES INCL	60	153	51	2	266
WHITE FEMALES:					
MEAN	42.873	43.020	43.981	39.250	43.141
STD.DEV.	4.578	4.746	4.638	1.485	4.702
MAXIMUM	51.800	56.200	53.700	40.300	56.200
MINIMUM	33.900	34.600	35.500	38.200	33.900
CASES INCL	37	76	32	2	147
BLACK FEMALES:					
MEAN	44.893	43.586	44.840	0.000	43.985
STD.DEV.	4.467	5.314	5.579	0.000	5.220
MAXIMUM	54.400	67.000	57.600	0.000	67.000
MINIMUM	38.600	33.900	35.200	0.000	33.900
CASES INCL	14	64	15	0	93
HISPANIC FEMALES:					
MEAN	42.883	41.256	42.133	0.000	41.944
STD.DEV.	5.488	3.694	2.984	0.000	4.110
MAXIMUM	47.800	45.200	44.100	0.000	47.800
MINIMUM	33.700	35.000	38.700	0.000	33.700
CASES INCL	6	9	3	0	18

FAT MASS(KG) FROM HYDROSTATIC WEIGHING GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	12.347	13.652	18.632	19.783	16.277
STD.DEV.	5.272	6.294	7.736	5.563	7.108
MAXIMUM	35.300	38.300	44.000	39.000	44.000
MINIMUM	4.000	-0.200	2.600	6.900	-0.200
CASES INCL	161	389	318	258	1126
WHITE MALES:					
MEAN	13.138	14.906	20.504	20.014	17.643
STD.DEV.	5.065	6.063	7.112	5.625	6.749
MAXIMUM	30.000	38.300	44.000	39.000	44.000
MINIMUM	4.000	5.200	6.100	6.900	4.000
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	10.240	11.328	15.384	17.007	12.673
STD.DEV.	4.425	6.226	8.569	4.464	7.043
MAXIMUM	23.200	31.400	41.500	28.000	41.500
MINIMUM	4.900	-0.200	2.600	11.500	-0.200
CASES INCL	40	124	75	14	253
HISPANIC MALES:					
MEAN	13.181	14.612	18.633	20.420	16.615
STD.DEV.	7.048	6.099	7.013	4.485	6.895
MAXIMUM	35.300	26.200	41.500	27.000	41.500
MINIMUM	5.400	2.800	6.500	12.000	2.800
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	17.015	16.319	19.773	19.750	17.164
STD.DEV.	4.693	5.237	6.148	8.273	5.459
MAXIMUM	33.500	39.100	38.300	25.600	39.100
MINIMUM	7.500	6.200	3.300	13.900	3.300
CASES INCL	60	153	51	2	266
WHITE FEMALES:					
MEAN	16.995	16.936	19.863	19.750	17.626
STD.DEV.	4.821	6.049	5.086	8.273	5.657
MAXIMUM	33.500	39.100	28.500	25.600	39.100
MINIMUM	8.700	7.400	8.600	13.900	7.400
CASES INCL	37	76	32	2	147
BLACK FEMALES:					
MEAN	17.636	15.561	20.047	0.000	16.597
STD.DEV.	4.285	3.760	8.614	0.000	5.140
MAXIMUM	27.400	23.600	38.300	0.000	38.300
MINIMUM	11.700	6.200	3.300	0.000	3.300
CASES INCL	14	64	15	0	93
HISPANIC FEMALES:					
MEAN	16.883	16.756	17.333	0.000	16.894
STD.DEV.	5.007	5.059	3.866	0.000	4.607
MAXIMUM	24.900	25.300	20.000	0.000	25.300
MINIMUM	11.700	9.900	12.900	0.000	9.900
CASES INCL	6	9	3	0	18

INCREMENTAL DYNAMIC LIFT(KG) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	135.108	134.543	124.416	117.143	130.574
STD.DEV.	25.774	26.402	24.221	22.584	25.977
MAXIMUM	200.000	200.000	200.000	180.000	200.000
MINIMUM	60.000	70.000	60.000	70.000	60.000
CASES INCL	139	361	274	28	802
WHITE MALES:					
MEAN	133.837	134.526	122.029	112.143	129.626
STD.DEV.	23.473	26.338	24.707	18.051	25.796
MAXIMUM	200.000	200.000	200.000	140.000	200.000
MINIMUM	80.000	70.000	60.000	70.000	60.000
CASES INCL	86	190	138	14	428
BLACK MALES:					
MEAN	137.429	138.246	133.333	125.714	136.222
STD.DEV.	24.893	26.482	21.670	20.702	24.703
MAXIMUM	200.000	200.000	200.000	150.000	200.000
MINIMUM	60.000	70.000	80.000	100.000	60.000
CASES INCL	35	114	69	7	225
HISPANIC MALES:					
MEAN	137.857	128.000	121.731	122.500	126.174
STD.DEV.	39.062	23.510	24.712	40.311	27.034
MAXIMUM	200.000	200.000	190.000	180.000	200.000
MINIMUM	80.000	70.000	80.000	90.000	70.000
CASES INCL	14	45	52	4	115
ALL FEMALES:					
MEAN	67.037	64.685	64.889	40.000	65.144
STD.DEV.	17.871	10.668	9.682	0.000	12.542
MAXIMUM	160.000	100.000	90.000	40.000	160.000
MINIMUM	40.000	40.000	50.000	40.000	40.000
CASES INCL	54	143	45	1	243
WHITE FEMALES:					
MEAN	69.063	64.638	66.429	40.000	65.923
STD.DEV.	20.377	11.953	10.261	0.000	14.343
MAXIMUM	160.000	100.000	90.000	40.000	160.000
MINIMUM	50.000	40.000	50.000	40.000	40.000
CASES INCL	32	69	28	1	130
BLACK FEMALES:					
MEAN	65.000	64.754	63.077	0.000	64.545
STD.DEV.	10.190	9.239	8.549	0.000	9.211
MAXIMUM	80.000	80.000	80.000	0.000	80.000
MINIMUM	40.000	50.000	50.000	0.000	40.000
CASES INCL	14	61	13	0	88
HISPANIC FEMALES:					
MEAN	60.000	63.333	56.667	0.000	61.176
STD.DEV.	18.708	8.660	5.774	0.000	11.663
MAXIMUM	90.000	80.000	60.000	0.000	90.000
MINIMUM	40.000	50.000	50.000	0.000	40.000
CASES INCL	5	9	3	0	17

HEART RATE(BPM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	194.465	193.039	188.269	182.758	189.480
STD.DEV.	8.942	7.834	8.494	8.962	9.475
MAXIMUM	218.000	220.000	210.000	209.000	220.000
MINIMUM	172.000	170.000	160.000	157.000	157.000
CASES INCL	127	337	275	223	962
WHITE MALES:					
MEAN	194.590	193.225	186.856	182.656	188.426
STD.DEV.	9.557	7.574	8.343	8.603	9.650
MAXIMUM	218.000	210.000	206.000	209.000	218.000
MINIMUM	172.000	172.000	160.000	157.000	157.000
CASES INCL	78	182	146	195	601
BLACK MALES:					
MEAN	192.613	191.819	188.323	183.000	190.336
STD.DEV.	8.192	8.187	8.329	13.064	8.888
MAXIMUM	208.000	212.000	204.000	206.000	212.000
MINIMUM	180.000	170.000	170.000	160.000	160.000
CASES INCL	31	105	65	13	214
HISPANIC MALES:					
MEAN	198.643	195.256	191.633	187.222	193.432
STD.DEV.	4.361	8.016	8.472	9.744	8.480
MAXIMUM	206.000	220.000	210.000	197.000	220.000
MINIMUM	190.000	182.000	172.000	165.000	165.000
CASES INCL	14	39	49	9	111
ALL FEMALES:					
MEAN	193.549	190.179	185.391	182.000	189.941
STD.DEV.	7.349	6.850	7.292	0.000	7.492
MAXIMUM	210.000	204.000	203.000	182.000	210.000
MINIMUM	178.000	170.000	172.000	182.000	170.000
CASES INCL	51	140	46	1	238
WHITE FEMALES:					
MEAN	191.867	190.254	185.607	182.000	189.540
STD.DEV.	7.696	7.302	6.946	0.000	7.603
MAXIMUM	210.000	204.000	203.000	182.000	210.000
MINIMUM	178.000	170.000	175.000	182.000	170.000
CASES INCL	30	67	28	1	126
BLACK FEMALES:					
MEAN	196.077	189.783	186.929	0.000	190.264
STD.DEV.	5.204	6.745	7.130	0.000	7.054
MAXIMUM	202.000	204.000	200.000	0.000	204.000
MINIMUM	188.000	178.000	176.000	0.000	176.000
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	197.600	191.444	180.667	0.000	191.353
STD.DEV.	9.940	4.720	8.622	0.000	8.874
MAXIMUM	210.000	200.000	190.000	0.000	210.000
MINIMUM	184.000	185.000	173.000	0.000	173.000
CASES INCL	5	9	3	0	17

VOLUME OF AIR EXPIRED ($L \cdot MIN^{-1}$) AT VO_2 MAX GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	141.567	139.797	137.420	118.308	138.529
STD.DEV.	22.662	21.734	22.078	23.065	22.394
MAXIMUM	206.300	198.700	213.000	157.100	213.000
MINIMUM	84.200	73.500	80.700	70.500	70.500
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	141.356	141.593	140.290	119.008	140.397
STD.DEV.	20.463	20.914	23.381	25.275	22.087
MAXIMUM	184.100	187.500	213.000	157.100	213.000
MINIMUM	96.700	87.200	80.700	70.500	70.500
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	143.894	138.297	134.782	119.357	137.426
STD.DEV.	25.219	22.213	18.790	16.782	21.869
MAXIMUM	206.300	198.700	184.400	142.100	206.300
MINIMUM	84.200	73.500	97.800	94.900	73.500
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	139.557	139.636	137.245	117.100	137.866
STD.DEV.	26.191	23.604	21.485	39.555	23.380
MAXIMUM	180.600	194.000	186.100	145.900	194.000
MINIMUM	104.900	79.100	91.100	72.000	72.000
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	94.910	90.584	90.787	82.900	91.521
STD.DEV.	11.822	15.052	14.296	0.000	14.303
MAXIMUM	125.700	128.000	114.900	82.900	128.000
MINIMUM	69.200	48.200	65.500	82.900	48.200
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	95.323	90.290	93.063	82.900	92.038
STD.DEV.	12.052	12.836	14.295	0.000	13.026
MAXIMUM	114.700	117.400	114.900	82.900	117.400
MINIMUM	69.200	56.300	65.500	82.900	56.300
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	93.262	92.698	88.100	0.000	92.043
STD.DEV.	10.867	16.277	13.876	0.000	15.179
MAXIMUM	115.100	128.000	113.300	0.000	128.000
MINIMUM	75.900	55.700	67.400	0.000	55.700
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	99.700	85.733	90.367	0.000	90.659
STD.DEV.	15.959	16.563	14.571	0.000	16.327
MAXIMUM	125.700	107.500	105.900	0.000	125.700
MINIMUM	87.100	59.200	77.000	0.000	59.200
CASES INCL	5	9	3	0	17

CARBON DIOXIDE PRODUCTION(L) AT $\dot{V}O_2$ MAX GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	59.432	57.069	51.166	41.869	54.892
STD.DEV.	6.171	7.714	7.264	9.608	8.410
MAXIMUM	72.100	78.900	71.100	54.400	78.900
MINIMUM	38.000	34.600	34.100	3.100	3.100
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	59.624	57.230	50.842	41.438	55.081
STD.DEV.	5.789	6.917	7.580	5.311	8.079
MAXIMUM	72.100	78.200	69.800	51.400	78.200
MINIMUM	48.900	34.800	37.800	32.800	32.800
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	58.237	56.918	50.214	39.486	54.451
STD.DEV.	6.515	8.896	6.713	16.965	9.300
MAXIMUM	68.400	78.900	68.600	54.400	78.900
MINIMUM	38.000	34.600	34.100	3.100	3.100
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	61.486	57.392	53.186	46.467	55.663
STD.DEV.	7.672	8.182	6.832	7.454	8.090
MAXIMUM	71.900	75.300	70.400	52.400	75.300
MINIMUM	48.000	38.600	40.600	38.100	38.100
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	43.680	42.331	40.636	52.100	42.341
STD.DEV.	6.918	4.930	6.459	0.000	5.795
MAXIMUM	64.500	55.600	55.200	52.100	64.500
MINIMUM	29.400	29.800	28.200	52.100	28.200
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	44.833	42.876	41.667	52.100	43.158
STD.DEV.	6.172	5.193	5.208	0.000	5.550
MAXIMUM	57.500	55.600	54.400	52.100	57.500
MINIMUM	31.000	32.100	31.700	52.100	31.000
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	38.962	41.628	37.421	0.000	40.553
STD.DEV.	4.912	4.230	6.775	0.000	5.037
MAXIMUM	47.800	50.200	48.400	0.000	50.200
MINIMUM	29.400	32.100	28.200	0.000	28.200
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	45.620	44.244	48.333	0.000	45.371
STD.DEV.	6.750	3.944	8.591	0.000	5.547
MAXIMUM	56.500	50.600	55.200	0.000	56.500
MINIMUM	39.600	39.000	38.700	0.000	38.700
CASES INCL	5	9	3	0	17

MAXIMAL OXYGEN UPTAKE($L \cdot MIN^{-1}$) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	3.766	3.693	3.521	3.168	3.627
STD.DEV.	0.427	0.484	0.507	0.526	0.500
MAXIMUM	4.930	5.680	5.180	4.230	5.680
MINIMUM	2.410	1.980	2.120	1.950	1.950
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	3.761	3.742	3.551	3.042	3.660
STD.DEV.	0.376	0.486	0.539	0.557	0.507
MAXIMUM	4.590	5.680	5.180	3.700	5.680
MINIMUM	2.990	2.550	2.120	1.950	1.950
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	3.767	3.660	3.541	3.359	3.629
STD.DEV.	0.434	0.467	0.445	0.300	0.457
MAXIMUM	4.730	4.930	4.810	3.810	4.930
MINIMUM	2.410	2.090	2.700	3.040	2.090
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	3.876	3.640	3.514	3.417	3.607
STD.DEV.	0.613	0.491	0.507	0.864	0.532
MAXIMUM	4.930	4.620	4.700	4.230	4.930
MINIMUM	2.840	1.980	2.360	2.510	1.980
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	2.462	2.338	2.410	2.320	2.378
STD.DEV.	0.312	0.298	0.371	0.000	0.318
MAXIMUM	3.210	3.170	3.210	2.320	3.210
MINIMUM	1.870	1.460	1.650	2.320	1.460
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	2.542	2.397	2.428	2.320	2.438
STD.DEV.	0.305	0.303	0.393	0.000	0.327
MAXIMUM	3.210	3.170	3.210	2.320	3.210
MINIMUM	1.940	1.880	1.650	2.320	1.650
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	2.288	2.291	2.360	0.000	2.302
STD.DEV.	0.176	0.294	0.319	0.000	0.283
MAXIMUM	2.690	2.920	2.980	0.000	2.980
MINIMUM	2.020	1.460	1.890	0.000	1.460
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	2.436	2.296	2.600	0.000	2.391
STD.DEV.	0.532	0.217	0.468	0.000	0.369
MAXIMUM	3.200	2.650	3.140	0.000	3.200
MINIMUM	1.870	1.900	2.320	0.000	1.870
CASES INCL	5	9	3	0	17

VENTILTORY EQUIVALENT AT $\dot{V}O_2$ MAX GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	37.641	37.934	39.327	37.554	38.356
STD.DEV.	4.517	4.543	5.321	5.309	4.894
MAXIMUM	51.000	52.800	58.000	45.600	58.000
MINIMUM	27.200	27.500	25.300	28.700	25.300
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	37.618	37.949	39.921	39.269	38.577
STD.DEV.	4.303	4.501	5.698	5.491	5.004
MAXIMUM	46.300	52.600	58.000	45.600	58.000
MINIMUM	28.400	28.100	25.300	29.900	25.300
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	38.269	37.779	38.318	35.800	37.956
STD.DEV.	5.069	4.399	5.066	4.270	4.707
MAXIMUM	51.000	48.200	52.900	42.000	52.900
MINIMUM	29.500	27.500	29.300	29.400	27.500
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	36.079	38.521	39.265	33.967	38.412
STD.DEV.	4.335	5.297	4.904	6.768	5.122
MAXIMUM	41.400	52.800	54.000	41.600	54.000
MINIMUM	27.200	29.000	31.800	28.700	27.200
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	38.794	38.950	37.951	35.800	38.714
STD.DEV.	4.755	5.611	4.645	0.000	5.247
MAXIMUM	48.100	56.300	52.200	35.800	56.300
MINIMUM	28.700	26.500	29.400	35.800	26.500
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	37.790	37.957	38.752	35.800	38.071
STD.DEV.	4.525	4.652	5.041	0.000	4.670
MAXIMUM	47.700	51.400	52.200	35.800	52.200
MINIMUM	28.700	29.300	29.400	35.800	28.700
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	40.477	40.622	37.393	0.000	40.080
STD.DEV.	4.633	6.196	3.982	0.000	5.756
MAXIMUM	48.100	56.300	46.300	0.000	56.300
MINIMUM	33.400	26.900	31.800	0.000	26.900
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	41.700	37.167	34.833	0.000	38.088
STD.DEV.	6.253	5.233	2.421	0.000	5.544
MAXIMUM	47.400	44.500	37.600	0.000	47.400
MINIMUM	32.100	28.000	33.100	0.000	28.000
CASES INCL	5	9	3	0	17

RESPIRATORY QUOTIENT AT $\dot{V}O_2$ MAX GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	1.145	1.139	1.139	1.090	1.138
STD.DEV.	0.061	0.069	0.077	0.070	0.071
MAXIMUM	1.300	1.340	1.390	1.240	1.390
MINIMUM	1.010	0.950	0.950	0.980	0.950
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	1.152	1.141	1.147	1.078	1.143
STD.DEV.	0.061	0.065	0.078	0.072	0.070
MAXIMUM	1.300	1.330	1.360	1.240	1.360
MINIMUM	1.040	0.950	1.010	0.980	0.950
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	1.127	1.130	1.116	1.107	1.124
STD.DEV.	0.062	0.078	0.069	0.081	0.073
MAXIMUM	1.270	1.340	1.290	1.220	1.340
MINIMUM	1.010	0.960	0.960	1.000	0.960
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	1.148	1.153	1.148	1.120	1.149
STD.DEV.	0.059	0.061	0.079	0.075	0.070
MAXIMUM	1.230	1.280	1.390	1.190	1.390
MINIMUM	1.040	1.050	0.970	1.040	0.970
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	1.057	1.068	1.063	1.220	1.065
STD.DEV.	0.064	0.074	0.075	0.000	0.073
MAXIMUM	1.210	1.250	1.230	1.220	1.250
MINIMUM	0.890	0.890	0.940	1.220	0.890
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	1.059	1.062	1.084	1.220	1.067
STD.DEV.	0.059	0.063	0.074	0.000	0.066
MAXIMUM	1.160	1.220	1.230	1.220	1.230
MINIMUM	0.890	0.950	0.950	1.220	0.890
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	1.032	1.071	1.019	0.000	1.057
STD.DEV.	0.063	0.093	0.066	0.000	0.080
MAXIMUM	1.150	1.240	1.140	0.000	1.240
MINIMUM	0.910	0.890	0.940	0.000	0.890
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	1.098	1.113	1.100	0.000	1.106
STD.DEV.	0.059	0.081	0.046	0.000	0.067
MAXIMUM	1.150	1.250	1.140	0.000	1.250
MINIMUM	1.020	0.980	1.050	0.000	0.980
CASES INCL	5	9	3	0	17

MAXIMAL OXYGEN UPTAKE($ML \cdot KG^{-1} \cdot MIN^{-1}$) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	51.873	50.084	45.117	46.026	47.961
STD.DEV.	4.457	5.771	5.665	6.517	6.324
MAXIMUM	63.100	66.200	63.000	73.600	73.600
MINIMUM	37.400	32.200	31.500	30.600	30.600
CASES INCL.	128	337	276	223	964
WHITE MALES:					
MEAN	51.719	50.121	44.739	46.615	47.884
STD.DEV.	4.046	5.277	5.789	6.490	6.211
MAXIMUM	63.100	65.700	60.900	73.600	73.600
MINIMUM	42.400	33.400	31.500	31.100	31.100
CASES INCL.	78	182	146	195	601
BLACK MALES:					
MEAN	51.647	50.270	45.005	42.115	48.390
STD.DEV.	4.595	6.293	5.567	3.617	6.442
MAXIMUM	63.000	64.100	57.200	49.900	64.100
MINIMUM	37.400	32.200	33.300	37.400	32.200
CASES INCL.	32	105	65	13	215
HISPANIC MALES:					
MEAN	53.729	49.782	46.345	42.933	48.207
STD.DEV.	6.213	6.734	5.138	6.671	6.600
MAXIMUM	61.500	66.200	63.000	53.000	66.200
MINIMUM	41.000	35.100	35.500	33.600	33.600
CASES INCL.	14	39	49	9	111
ALL FEMALES:					
MEAN	41.227	39.624	38.009	42.700	39.668
STD.DEV.	5.250	3.868	5.354	0.000	4.597
MAXIMUM	53.200	53.200	49.800	42.700	53.200
MINIMUM	28.700	29.800	27.200	42.700	27.200
CASES INCL.	51	140	46	1	238
WHITE FEMALES:					
MEAN	42.290	40.364	38.200	42.700	40.360
STD.DEV.	5.004	4.288	4.998	0.000	4.785
MAXIMUM	53.200	53.200	49.800	42.700	53.200
MINIMUM	28.700	31.500	27.200	42.700	27.200
CASES INCL.	30	67	28	1	126
BLACK FEMALES:					
MEAN	37.769	38.860	36.636	0.000	38.339
STD.DEV.	4.119	2.956	5.480	0.000	3.689
MAXIMUM	45.400	47.100	47.000	0.000	47.100
MINIMUM	32.500	31.300	28.500	0.000	28.500
CASES INCL.	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	41.440	39.756	43.833	0.000	40.971
STD.DEV.	4.889	3.192	6.430	0.000	4.321
MAXIMUM	49.600	44.700	49.600	0.000	49.600
MINIMUM	37.600	34.900	36.900	0.000	34.900
CASES INCL.	5	9	3	0	17

TREADMILL GRADE(%) AT $\dot{V}O_2$ MAX GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	9.141	8.887	7.651	6.923	8.432
STD.DEV.	1.814	2.110	2.044	2.675	2.168
MAXIMUM	12.500	15.000	15.000	15.000	15.000
MINIMUM	5.000	2.500	2.500	2.500	2.500
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	9.103	9.052	7.474	6.731	8.468
STD.DEV.	1.755	2.076	2.060	3.127	2.200
MAXIMUM	12.500	15.000	15.000	15.000	15.000
MINIMUM	5.000	2.500	2.500	2.500	2.500
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	9.063	8.619	7.538	6.786	8.289
STD.DEV.	1.768	2.192	2.001	2.782	2.173
MAXIMUM	12.500	15.000	12.500	10.000	15.000
MINIMUM	5.000	5.000	2.500	2.500	2.500
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	9.821	8.974	8.276	7.500	8.719
STD.DEV.	2.292	2.124	1.987	2.500	2.138
MAXIMUM	12.500	12.500	12.500	10.000	12.500
MINIMUM	5.000	5.000	5.000	5.000	5.000
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	8.176	7.368	6.889	7.500	7.451
STD.DEV.	2.353	2.158	2.206	0.000	2.237
MAXIMUM	12.500	12.500	12.500	7.500	12.500
MINIMUM	2.500	2.500	2.500	7.500	2.500
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	8.417	7.187	7.037	7.500	7.452
STD.DEV.	2.320	2.259	2.304	0.000	2.321
MAXIMUM	12.500	12.500	12.500	7.500	12.500
MINIMUM	5.000	2.500	2.500	7.500	2.500
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	6.923	7.625	6.429	0.000	7.328
STD.DEV.	2.317	2.029	2.129	0.000	2.116
MAXIMUM	10.000	12.500	10.000	0.000	12.500
MINIMUM	2.500	2.500	2.500	0.000	2.500
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	10.000	7.222	8.333	0.000	8.235
STD.DEV.	1.768	1.954	1.443	0.000	2.122
MAXIMUM	12.500	10.000	10.000	0.000	12.500
MINIMUM	7.500	5.000	7.500	0.000	5.000
CASES INCL	5	9	3	0	17

TREADMILL SPEED(MPH) AT $\dot{V}O_2$ MAX GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	6.418	6.295	6.097	5.769	6.229
STD.DEV.	0.524	0.474	0.460	0.430	0.498
MAXIMUM	7.500	7.500	7.000	6.000	7.500
MINIMUM	5.000	5.000	3.300	5.000	3.300
CASES INCL	128	337	262	26	753
WHITE MALES:					
MEAN	6.385	6.272	6.077	5.692	6.211
STD.DEV.	0.503	0.460	0.498	0.480	0.502
MAXIMUM	7.500	7.500	7.000	6.000	7.500
MINIMUM	6.000	5.000	3.300	5.000	3.300
CASES INCL	78	182	134	13	407
BLACK MALES:					
MEAN	6.453	6.305	6.123	5.714	6.251
STD.DEV.	0.587	0.473	0.442	0.488	0.503
MAXIMUM	7.500	7.000	7.000	6.000	7.500
MINIMUM	5.000	5.000	5.000	5.000	5.000
CASES INCL	32	105	65	7	209
HISPANIC MALES:					
MEAN	6.429	6.308	6.143	6.000	6.238
STD.DEV.	0.514	0.521	0.395	0.000	0.466
MAXIMUM	7.000	7.000	7.000	6.000	7.000
MINIMUM	6.000	5.000	5.000	6.000	5.000
CASES INCL	14	39	49	3	105
ALL FEMALES:					
MEAN	5.108	5.143	5.178	6.000	5.146
STD.DEV.	0.439	0.361	0.401	0.000	0.389
MAXIMUM	7.000	6.000	6.000	6.000	7.000
MINIMUM	4.000	4.500	4.500	6.000	4.000
CASES INCL	51	140	45	1	237
WHITE FEMALES:					
MEAN	5.133	5.179	5.185	6.000	5.176
STD.DEV.	0.507	0.415	0.396	0.000	0.437
MAXIMUM	7.000	6.000	6.000	6.000	7.000
MINIMUM	4.000	4.500	5.000	6.000	4.000
CASES INCL	30	67	27	1	125
BLACK FEMALES:					
MEAN	5.077	5.083	5.071	0.000	5.080
STD.DEV.	0.277	0.263	0.331	0.000	0.274
MAXIMUM	6.000	6.000	6.000	0.000	6.000
MINIMUM	5.000	5.000	4.500	0.000	4.500
CASES INCL	13	60	14	0	87
HISPANIC FEMALES:					
MEAN	4.900	5.222	5.667	0.000	5.206
STD.DEV.	0.224	0.441	0.577	0.000	0.470
MAXIMUM	5.000	6.000	6.000	0.000	6.000
MINIMUM	4.500	5.000	5.000	0.000	4.500
CASES INCL	5	9	3	0	17

SIT-UPS GROUPED BY GENDER, RACE, AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	59.058	57.232	49.913	42.488	52.428
STD.DEV.	9.733	11.355	12.009	17.139	14.079
MAXIMUM	79.000	99.000	84.000	99.000	99.000
MINIMUM	35.000	28.000	12.000	20.000	12.000
CASES INCL	154	366	287	207	1014
WHITE MALES:					
MEAN	58.337	55.492	47.881	42.204	50.097
STD.DEV.	9.895	11.314	11.940	17.282	14.712
MAXIMUM	78.000	84.000	84.000	99.000	99.000
MINIMUM	35.000	28.000	12.000	20.000	12.000
CASES INCL	95	189	151	186	621
BLACK MALES:					
MEAN	60.950	59.729	53.225	39.800	57.167
STD.DEV.	9.193	11.559	11.405	14.566	12.197
MAXIMUM	73.000	99.000	79.000	60.000	99.000
MINIMUM	42.000	37.000	30.000	25.000	25.000
CASES INCL	40	118	71	10	239
HISPANIC MALES:					
MEAN	58.800	57.128	51.961	58.800	55.178
STD.DEV.	9.329	9.877	12.327	19.614	11.625
MAXIMUM	79.000	84.000	84.000	80.000	84.000
MINIMUM	40.000	40.000	33.000	40.000	33.000
CASES INCL	15	47	51	5	118
ALL FEMALES:					
MEAN	54.450	51.575	43.417	16.000	50.576
STD.DEV.	11.907	11.982	11.302	0.000	12.532
MAXIMUM	81.000	86.000	74.000	16.000	86.000
MINIMUM	30.000	27.000	25.000	16.000	16.000
CASES INCL	60	146	48	1	255
WHITE FEMALES:					
MEAN	54.361	50.603	42.968	16.000	49.638
STD.DEV.	12.710	12.768	10.741	0.000	13.157
MAXIMUM	81.000	86.000	74.000	16.000	86.000
MINIMUM	30.000	27.000	25.000	16.000	16.000
CASES INCL	36	73	31	1	141
BLACK FEMALES:					
MEAN	53.800	52.426	43.846	0.000	51.404
STD.DEV.	11.397	11.270	11.810	0.000	11.680
MAXIMUM	75.000	75.000	65.000	0.000	75.000
MINIMUM	35.000	27.000	26.000	0.000	26.000
CASES INCL	15	61	13	0	89
HISPANIC FEMALES:					
MEAN	57.000	55.667	50.000	0.000	55.167
STD.DEV.	5.367	9.747	17.321	0.000	9.721
MAXIMUM	62.000	71.000	70.000	0.000	71.000
MINIMUM	50.000	40.000	40.000	0.000	40.000
CASES INCL	6	9	3	0	18

PUSH-UPS GROUPED BY GENDER, RACE, AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	55.818	55.742	49.524	35.510	49.890
STD.DEV.	10.923	12.933	12.281	15.525	15.156
MAXIMUM	79.000	99.000	99.000	80.000	99.000
MINIMUM	20.000	13.000	15.000	15.000	13.000
CASES INCL	154	368	286	206	1014
WHITE MALES:					
MEAN	55.558	54.932	48.007	35.330	47.503
STD.DEV.	10.190	12.159	11.870	15.797	15.500
MAXIMUM	79.000	99.000	80.000	80.000	99.000
MINIMUM	35.000	18.000	18.000	15.000	15.000
CASES INCL	95	190	150	185	620
BLACK MALES:					
MEAN	55.650	55.831	50.829	32.500	53.349
STD.DEV.	12.970	14.014	13.066	12.492	14.298
MAXIMUM	75.000	99.000	99.000	56.000	99.000
MINIMUM	20.000	13.000	15.000	17.000	13.000
CASES INCL	40	118	70	10	238
HISPANIC MALES:					
MEAN	57.400	57.313	52.692	38.800	54.550
STD.DEV.	10.446	12.027	12.695	15.707	12.781
MAXIMUM	78.000	85.000	77.000	60.000	85.000
MINIMUM	44.000	40.000	33.000	20.000	20.000
CASES INCL	15	48	52	5	120
ALL FEMALES:					
MEAN	34.300	32.726	28.479	10.000	32.208
STD.DEV.	11.441	11.709	10.647	0.000	11.637
MAXIMUM	64.000	78.000	69.000	10.000	78.000
MINIMUM	17.000	15.000	12.000	10.000	10.000
CASES INCL	60	146	48	1	255
WHITE FEMALES:					
MEAN	32.722	33.096	27.387	10.000	31.582
STD.DEV.	11.431	13.507	8.405	0.000	12.263
MAXIMUM	61.000	78.000	46.000	10.000	78.000
MINIMUM	17.000	16.000	13.000	10.000	10.000
CASES INCL	36	73	31	1	141
BLACK FEMALES:					
MEAN	34.667	31.754	30.462	0.000	32.056
STD.DEV.	10.279	9.953	15.251	0.000	10.847
MAXIMUM	50.000	59.000	69.000	0.000	69.000
MINIMUM	17.000	15.000	12.000	0.000	12.000
CASES INCL	15	61	13	0	89
HISPANIC FEMALES:					
MEAN	33.833	35.444	34.667	0.000	34.778
STD.DEV.	8.208	8.633	7.234	0.000	7.848
MAXIMUM	41.000	46.000	43.000	0.000	46.000
MINIMUM	20.000	24.000	30.000	0.000	20.000
CASES INCL	6	9	3	0	18

APFT SCORE (POINTS) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	253.276	250.132	233.356	242.200	244.806
STD.DEV.	29.784	31.808	35.466	54.332	34.103
MAXIMUM	300.000	300.000	300.000	300.000	300.000
MINIMUM	186.000	175.000	129.000	146.000	129.000
CASES INCL	156	378	289	10	833
WHITE MALES:					
MEAN	248.845	247.883	228.060	249.714	241.556
STD.DEV.	28.197	32.669	33.535	31.921	33.887
MAXIMUM	300.000	300.000	300.000	300.000	300.000
MINIMUM	186.000	182.000	129.000	146.000	129.000
CASES INCL	97	197	149	7	450
BLACK MALES:					
MEAN	261.718	251.583	240.597	195.000	249.634
STD.DEV.	32.404	31.632	40.205	0.000	35.356
MAXIMUM	300.000	300.000	300.000	195.000	300.000
MINIMUM	190.000	175.000	129.000	195.000	129.000
CASES INCL	39	120	72	1	232
HISPANIC MALES:					
MEAN	261.063	253.776	240.545	261.000	248.785
STD.DEV.	24.551	29.146	33.642	0.000	31.418
MAXIMUM	292.000	300.000	300.000	261.000	300.000
MINIMUM	211.000	199.000	188.000	261.000	188.000
CASES INCL	16	49	55	1	121
ALL FEMALES:					
MEAN	262.525	253.595	255.898	0.000	256.094
STD.DEV.	32.662	32.519	38.361	0.000	33.800
MAXIMUM	300.000	300.000	300.000	0.000	300.000
MINIMUM	182.000	156.000	133.000	0.000	133.000
CASES INCL	59	148	49	0	256
WHITE FEMALES:					
MEAN	263.486	249.389	253.387	0.000	253.862
STD.DEV.	31.467	35.912	43.144	0.000	36.823
MAXIMUM	300.000	300.000	300.000	0.000	300.000
MINIMUM	193.000	156.000	133.000	0.000	133.000
CASES INCL	35	72	31	0	138
BLACK FEMALES:					
MEAN	258.000	256.031	261.500	0.000	257.172
STD.DEV.	32.397	29.467	29.656	0.000	29.706
MAXIMUM	300.000	300.000	300.000	0.000	300.000
MINIMUM	209.000	191.000	183.000	0.000	183.000
CASES INCL	15	64	14	0	93
HISPANIC FEMALES:					
MEAN	273.333	267.333	265.000	0.000	268.944
STD.DEV.	29.764	26.391	29.138	0.000	26.441
MAXIMUM	300.000	300.000	290.000	0.000	300.000
MINIMUM	220.000	211.000	233.000	0.000	211.000
CASES INCL	6	9	3	0	18

TWO MILE RUN TIME (MINUTES) GROUPED BY GENDER, RACE, AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	14.012	14.367	15.808	16.007	15.057
STD.DEV.	1.616	1.816	1.960	2.096	2.060
MAXIMUM	17.833	19.500	23.000	24.000	24.000
MINIMUM	10.167	10.167	10.333	11.000	10.167
CASES INCL	152	363	285	206	1006
WHITE MALES:					
MEAN	14.360	14.486	16.085	15.975	15.303
STD.DEV.	1.568	1.780	1.928	2.131	2.052
MAXIMUM	17.833	19.333	19.500	24.000	24.000
MINIMUM	10.833	10.500	10.333	11.000	10.333
CASES INCL	95	187	151	185	618
BLACK MALES:					
MEAN	13.299	14.315	15.556	16.273	14.596
STD.DEV.	1.473	1.978	2.013	2.020	2.085
MAXIMUM	17.000	18.333	23.000	19.833	23.000
MINIMUM	10.333	10.833	12.167	14.000	10.333
CASES INCL	39	118	68	11	236
HISPANIC MALES:					
MEAN	13.321	14.105	15.297	15.083	14.579
STD.DEV.	1.436	1.601	1.933	1.159	1.858
MAXIMUM	15.333	19.500	20.000	16.667	20.000
MINIMUM	10.167	11.333	11.000	14.000	10.167
CASES INCL	14	46	52	4	116
ALL FEMALES:					
MEAN	17.168	18.028	18.388	0.000	17.898
STD.DEV.	2.363	2.022	3.018	0.000	2.352
MAXIMUM	23.333	23.333	27.667	0.000	27.667
MINIMUM	12.833	13.833	13.000	0.000	12.833
CASES INCL	59	146	49	0	254
WHITE FEMALES:					
MEAN	17.120	18.307	18.809	0.000	18.120
STD.DEV.	2.223	2.166	3.345	0.000	2.545
MAXIMUM	22.000	23.333	27.667	0.000	27.667
MINIMUM	13.000	13.833	13.333	0.000	13.000
CASES INCL	35	73	31	0	139
BLACK FEMALES:					
MEAN	17.711	17.773	17.874	0.000	17.779
STD.DEV.	2.740	1.806	2.025	0.000	1.995
MAXIMUM	23.333	21.333	21.000	0.000	23.333
MINIMUM	13.000	14.000	13.000	0.000	13.000
CASES INCL	15	61	14	0	90
HISPANIC FEMALES:					
MEAN	16.667	17.498	15.444	0.000	16.879
STD.DEV.	2.266	1.618	1.388	0.000	1.884
MAXIMUM	19.333	21.167	17.000	0.000	21.167
MINIMUM	12.833	16.000	14.333	0.000	12.833
CASES INCL	6	9	3	0	18

WEIGHT(KG) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	72.910	74.172	79.355	81.190	77.063
STD.DEV.	8.729	10.634	12.879	9.521	11.313
MAXIMUM	108.600	117.800	126.900	120.200	126.900
MINIMUM	50.900	51.700	48.000	50.200	48.000
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	73.124	75.088	80.913	81.460	78.261
STD.DEV.	8.097	10.948	12.812	9.049	11.024
MAXIMUM	90.600	117.800	126.900	111.300	126.900
MINIMUM	58.100	53.100	48.000	50.200	48.000
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	72.844	73.710	80.016	84.280	76.047
STD.DEV.	7.917	9.976	12.615	12.892	11.250
MAXIMUM	88.400	111.500	117.500	120.200	120.200
MINIMUM	55.100	58.100	58.200	69.900	55.100
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	72.969	72.582	76.500	77.380	74.682
STD.DEV.	12.145	10.673	11.944	9.391	11.389
MAXIMUM	108.600	98.600	117.700	89.700	117.700
MINIMUM	50.900	56.100	50.700	56.200	50.700
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	59.889	59.509	63.575	59.000	60.372
STD.DEV.	7.684	8.095	8.402	6.788	8.166
MAXIMUM	81.800	88.500	91.400	63.800	91.400
MINIMUM	46.100	43.600	44.100	54.200	43.600
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	59.868	59.955	63.482	59.000	60.707
STD.DEV.	7.410	8.471	8.116	6.788	8.182
MAXIMUM	78.100	88.500	79.900	63.800	88.500
MINIMUM	46.100	45.200	44.100	54.200	44.100
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	60.981	59.311	64.887	0.000	60.448
STD.DEV.	8.368	7.417	9.655	0.000	8.112
MAXIMUM	81.800	82.300	91.400	0.000	91.400
MINIMUM	50.100	43.600	52.800	0.000	43.600
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	59.767	58.011	59.467	0.000	58.839
STD.DEV.	9.194	6.761	6.816	0.000	7.251
MAXIMUM	72.600	70.500	63.600	0.000	72.600
MINIMUM	49.600	50.200	51.600	0.000	49.600
CASES INCL	6	9	3	0	18

HEIGHT(CM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	174.652	174.008	174.280	177.776	175.046
STD.DEV.	5.932	6.800	7.295	6.636	6.948
MAXIMUM	188.400	193.200	195.900	195.900	195.900
MINIMUM	155.800	155.600	155.400	155.500	155.400
CASES INCL.	162	385	318	259	1124
WHITE MALES:					
MEAN	174.886	175.106	175.955	178.426	176.358
STD.DEV.	5.988	6.873	7.331	6.123	6.781
MAXIMUM	188.400	193.200	195.900	195.900	195.900
MINIMUM	159.400	155.600	155.400	162.500	155.400
CASES INCL.	101	201	166	226	694
BLACK MALES:					
MEAN	174.244	173.789	174.725	178.153	174.394
STD.DEV.	5.827	6.469	6.389	7.529	6.456
MAXIMUM	182.500	190.100	187.700	189.900	190.100
MINIMUM	155.800	160.400	156.900	161.900	155.800
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	174.556	170.806	170.624	171.500	171.233
STD.DEV.	5.173	5.711	6.311	5.566	5.984
MAXIMUM	183.200	180.500	184.500	178.600	184.500
MINIMUM	167.200	160.200	157.500	163.300	157.500
CASES INCL.	16	48	58	10	132
ALL FEMALES:					
MEAN	162.132	162.434	163.644	157.300	162.559
STD.DEV.	6.153	6.360	5.819	4.243	6.211
MAXIMUM	176.300	179.200	176.900	160.300	179.200
MINIMUM	147.900	144.000	150.700	154.300	144.000
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	162.722	162.967	163.806	157.300	163.016
STD.DEV.	6.272	6.159	5.786	4.243	6.083
MAXIMUM	176.300	179.200	176.900	160.300	179.200
MINIMUM	147.900	147.900	154.400	154.300	147.900
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	162.575	162.800	164.387	0.000	163.008
STD.DEV.	6.139	6.175	6.186	0.000	6.136
MAXIMUM	176.300	174.000	176.500	0.000	176.500
MINIMUM	149.900	149.300	150.700	0.000	149.300
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	160.817	156.400	160.433	0.000	158.544
STD.DEV.	4.655	7.353	4.053	0.000	6.216
MAXIMUM	167.300	165.800	165.100	0.000	167.300
MINIMUM	154.300	144.000	157.800	0.000	144.000
CASES INCL.	6	9	3	0	18

AVERAGE AGE(YRS) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	19.302	23.771	32.887	43.324	30.189
STD.DEV.	0.732	2.142	3.558	2.711	8.936
MAXIMUM	20.000	27.000	39.000	54.000	54.000
MINIMUM	18.000	21.000	28.000	40.000	18.000
CASES INCL	162	389	318	259	1128
WHITE MALES:					
MEAN	19.297	23.448	33.217	43.367	31.644
STD.DEV.	0.729	2.032	3.732	2.723	9.697
MAXIMUM	20.000	27.000	39.000	54.000	54.000
MINIMUM	18.000	21.000	28.000	40.000	18.000
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	19.415	24.161	32.293	42.800	26.886
STD.DEV.	0.706	2.206	3.308	1.612	6.480
MAXIMUM	20.000	27.000	39.000	47.000	47.000
MINIMUM	18.000	21.000	28.000	41.000	18.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	19.125	24.280	32.552	43.500	28.679
STD.DEV.	0.806	2.186	3.304	3.659	6.981
MAXIMUM	20.000	27.000	39.000	51.000	51.000
MINIMUM	18.000	21.000	28.000	40.000	18.000
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	19.355	23.374	31.077	40.000	24.055
STD.DEV.	0.630	1.934	2.930	0.000	4.535
MAXIMUM	20.000	27.000	39.000	40.000	40.000
MINIMUM	18.000	21.000	28.000	40.000	18.000
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	19.378	23.171	31.576	40.000	24.324
STD.DEV.	0.639	1.996	3.153	0.000	5.127
MAXIMUM	20.000	27.000	39.000	40.000	40.000
MINIMUM	18.000	21.000	28.000	40.000	18.000
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	19.375	23.485	30.267	0.000	23.856
STD.DEV.	0.719	1.875	2.492	0.000	3.637
MAXIMUM	20.000	27.000	35.000	0.000	35.000
MINIMUM	18.000	21.000	28.000	0.000	18.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	19.167	23.444	29.667	0.000	23.056
STD.DEV.	0.408	1.509	2.082	0.000	3.842
MAXIMUM	20.000	26.000	32.000	0.000	32.000
MINIMUM	19.000	21.000	28.000	0.000	19.000
CASES INCL	6	9	3	0	18

SUM OF BICEP, TRICEP, SUBSCAPULAR, AND SUPRAILLIAC SKINFOLDS(MM) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	47.299	50.312	58.230	60.243	54.387
STD.DEV.	16.166	19.476	22.874	16.576	20.077
MAXIMUM	103.300	108.800	123.000	119.500	123.000
MINIMUM	22.500	17.900	15.200	20.700	15.200
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	49.331	51.993	60.914	60.257	56.412
STD.DEV.	16.217	18.627	21.085	16.059	18.721
MAXIMUM	103.300	108.300	108.800	103.000	108.800
MINIMUM	24.100	21.300	20.300	20.700	20.300
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	41.720	44.988	51.335	56.447	47.003
STD.DEV.	15.117	18.883	25.006	23.395	20.935
MAXIMUM	89.800	108.800	112.300	119.500	119.500
MINIMUM	22.500	17.900	16.700	32.800	16.700
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	49.962	56.376	60.907	63.390	58.095
STD.DEV.	15.674	20.661	22.673	16.876	20.957
MAXIMUM	97.200	101.000	123.000	84.300	123.000
MINIMUM	30.900	24.900	15.400	30.200	15.400
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	58.561	51.352	59.392	72.650	54.701
STD.DEV.	19.581	19.197	21.085	42.214	20.097
MAXIMUM	118.000	114.300	111.800	102.500	118.000
MINIMUM	23.600	20.700	18.500	42.800	18.500
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	60.127	54.207	59.042	72.650	57.014
STD.DEV.	18.234	20.970	19.959	42.214	20.381
MAXIMUM	118.000	114.300	98.900	102.500	118.000
MINIMUM	29.800	20.700	22.300	42.800	20.700
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	53.706	47.506	58.000	0.000	50.152
STD.DEV.	20.613	16.507	24.609	0.000	18.861
MAXIMUM	92.400	106.100	111.800	0.000	111.800
MINIMUM	23.600	22.600	18.500	0.000	18.500
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	58.183	53.656	59.167	0.000	56.083
STD.DEV.	23.035	19.710	12.590	0.000	19.075
MAXIMUM	101.700	88.600	73.700	0.000	101.700
MINIMUM	37.200	26.300	51.600	0.000	26.300
CASES INCL	6	9	3	0	18

SUM OF BICEP, TRICEP, SUBSCAPULAR, AND SUPRAILLIAC SKINFOLDS(MM)-ARMY ROUNDED METHOD-
GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	44.722	47.763	55.881	57.694	51.890
STD.DEV.	16.316	19.501	22.836	16.610	20.109
MAXIMUM	100.000	105.000	120.000	115.000	120.000
MINIMUM	20.000	15.000	15.000	20.000	15.000
CASES INCL	162	389	318	258	1127
WHITE MALES:					
MEAN	46.584	49.310	58.464	57.689	53.813
STD.DEV.	16.385	18.649	21.154	16.167	18.821
MAXIMUM	100.000	105.000	105.000	100.000	105.000
MINIMUM	20.000	20.000	20.000	20.000	20.000
CASES INCL	101	203	166	225	695
BLACK MALES:					
MEAN	39.512	42.621	49.133	54.000	44.706
STD.DEV.	15.362	18.865	24.897	22.850	20.886
MAXIMUM	85.000	105.000	110.000	115.000	115.000
MINIMUM	20.000	15.000	15.000	30.000	15.000
CASES INCL	41	124	75	15	255
HISPANIC MALES:					
MEAN	47.188	53.900	58.621	61.000	55.672
STD.DEV.	16.018	21.003	22.494	16.296	21.024
MAXIMUM	95.000	100.000	120.000	80.000	120.000
MINIMUM	30.000	20.000	15.000	30.000	15.000
CASES INCL	16	50	58	10	134
ALL FEMALES:					
MEAN	56.048	48.903	56.923	70.000	52.232
STD.DEV.	19.755	19.325	21.031	42.426	20.191
MAXIMUM	115.000	110.000	110.000	100.000	115.000
MINIMUM	20.000	20.000	15.000	40.000	15.000
CASES INCL	62	155	52	2	271
WHITE FEMALES:					
MEAN	57.568	51.711	56.818	70.000	54.561
STD.DEV.	18.582	20.953	19.757	42.426	20.412
MAXIMUM	115.000	110.000	95.000	100.000	115.000
MINIMUM	25.000	20.000	20.000	40.000	20.000
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	51.250	45.000	55.000	0.000	47.577
STD.DEV.	20.535	16.710	24.857	0.000	18.986
MAXIMUM	90.000	105.000	110.000	0.000	110.000
MINIMUM	20.000	20.000	15.000	0.000	15.000
CASES INCL	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	55.833	51.667	56.667	0.000	53.889
STD.DEV.	23.327	20.000	11.547	0.000	19.217
MAXIMUM	100.000	85.000	70.000	0.000	100.000
MINIMUM	35.000	25.000	50.000	0.000	25.000
CASES INCL	6	9	3	0	18

PERCENT BODYFAT (DURNIN-WOMERSLEY) GROUPED BY GENDER, RACE AND AGE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	16.457	17.051	20.891	25.699	20.030
STD.DEV.	4.365	5.068	5.005	4.293	5.947
MAXIMUM	27.000	28.000	31.000	37.000	37.000
MINIMUM	8.000	4.000	8.000	12.000	4.000
CASES INCL	162	389	313	259	1123
WHITE MALES:					
MEAN	17.010	17.601	21.446	25.712	21.066
STD.DEV.	4.302	4.667	4.503	4.237	5.707
MAXIMUM	27.000	28.000	29.000	37.000	37.000
MINIMUM	8.000	8.000	10.000	12.000	8.000
CASES INCL	101	203	166	226	696
BLACK MALES:					
MEAN	14.878	15.548	19.264	24.400	17.028
STD.DEV.	4.417	5.215	5.831	4.968	5.826
MAXIMUM	25.000	28.000	30.000	36.000	36.000
MINIMUM	8.000	4.000	8.000	17.000	4.000
CASES INCL	41	124	72	15	252
HISPANIC MALES:					
MEAN	17.313	18.540	21.491	26.800	20.278
STD.DEV.	3.683	5.277	4.855	4.442	5.412
MAXIMUM	26.000	27.000	31.000	31.000	31.000
MINIMUM	12.000	8.000	12.000	17.000	8.000
CASES INCL	16	50	57	10	133
ALL FEMALES:					
MEAN	26.887	24.806	28.059	33.500	25.963
STD.DEV.	5.151	5.450	5.221	7.778	5.526
MAXIMUM	38.000	37.000	38.000	39.000	39.000
MINIMUM	14.000	14.000	16.000	28.000	14.000
CASES INCL	62	155	51	2	270
WHITE FEMALES:					
MEAN	27.486	25.579	28.000	33.500	26.703
STD.DEV.	4.623	5.485	5.280	7.778	5.374
MAXIMUM	38.000	37.000	36.000	39.000	39.000
MINIMUM	16.000	14.000	16.000	28.000	14.000
CASES INCL	37	76	33	2	148
BLACK FEMALES:					
MEAN	25.250	23.727	27.714	0.000	24.563
STD.DEV.	5.859	5.205	5.525	0.000	5.492
MAXIMUM	34.000	37.000	38.000	0.000	38.000
MINIMUM	14.000	14.000	19.000	0.000	14.000
CASES INCL	16	66	14	0	96
HISPANIC FEMALES:					
MEAN	26.833	25.556	28.000	0.000	26.389
STD.DEV.	5.269	6.146	3.464	0.000	5.315
MAXIMUM	36.000	34.000	32.000	0.000	36.000
MINIMUM	21.000	16.000	26.000	0.000	16.000
CASES INCL	6	9	3	0	18

PERCENT BODYFAT (DURNIN-WOMERSLEY EXTENDED TABLE) GROUPED BY GENDER, RACE AND ACE

	AGE: 17-20	21-27	28-39	40+	ALL AGE GROUPS COMBINED
ALL MALES:					
MEAN	17.717	18.223	21.697	26.708	21.079
STD.DEV.	3.923	4.629	4.983	4.060	5.671
MAXIMUM	28.000	28.700	31.300	37.900	37.900
MINIMUM	9.500	6.800	4.900	12.800	4.900
CASES INCL.	162	389	316	259	1126
WHITE MALES:					
MEAN	18.260	18.757	22.373	26.735	22.138
STD.DEV.	3.835	4.275	4.332	3.986	5.425
MAXIMUM	28.000	28.600	30.000	37.900	37.900
MINIMUM	10.000	8.600	11.000	12.800	8.600
CASES INCL.	101	203	166	226	696
BLACK MALES:					
MEAN	16.180	16.816	19.719	25.427	18.074
STD.DEV.	3.977	4.717	5.991	4.880	5.511
MAXIMUM	26.200	28.700	30.300	37.000	37.000
MINIMUM	9.500	6.800	4.900	18.800	4.900
CASES INCL.	41	124	75	15	255
HISPANIC MALES:					
MEAN	18.550	19.590	22.423	27.560	21.278
STD.DEV.	3.351	4.780	4.712	4.483	5.108
MAXIMUM	27.200	27.700	31.300	31.900	31.900
MINIMUM	13.300	10.500	12.600	17.700	10.500
CASES INCL.	16	50	57	10	133
ALL FEMALES:					
MEAN	27.953	25.999	28.869	34.550	27.060
STD.DEV.	4.797	5.023	5.418	7.849	5.219
MAXIMUM	38.800	38.300	38.800	40.100	40.100
MINIMUM	16.300	14.600	13.600	29.000	13.600
CASES INCL.	62	155	52	2	271
WHITE FEMALES:					
MEAN	28.514	26.726	29.027	34.550	27.792
STD.DEV.	4.181	5.117	5.071	7.849	5.034
MAXIMUM	38.800	38.300	37.100	40.100	40.100
MINIMUM	19.500	14.600	16.800	29.000	14.600
CASES INCL.	37	76	33	2	148
BLACK FEMALES:					
MEAN	26.481	25.011	27.993	0.000	25.714
STD.DEV.	5.647	4.756	6.451	0.000	5.255
MAXIMUM	35.100	37.200	38.800	0.000	38.800
MINIMUM	16.300	15.700	13.600	0.000	13.600
CASES INCL.	16	66	15	0	97
HISPANIC FEMALES:					
MEAN	27.817	26.567	29.067	0.000	27.400
STD.DEV.	5.014	5.572	3.580	0.000	4.943
MAXIMUM	36.700	34.600	33.200	0.000	36.700
MINIMUM	22.300	17.300	27.000	0.000	17.300
CASES INCL.	6	9	3	0	18

Appendix H

Correlation Matrices for All Data Summarized by Gender

Abbreviations for Correlation Matrix

Matrix Abbreviation	Variable Name
TIMESER	Total Time in Service
RANK	Current Rank
CARMGMT	Career Management Field/Branch
PRIMOS	Primary MOS
UNITYPE	Unit Type
SITUP	Number of Sit-Ups (PT Test)
PUSHUP	Number of Push-Ups (PT Test)
TWO MILE	2 Mile Run Time (PT Test)
PT SCORE	Total Points Scored (PT Test)
HY	Fear of Underwater Weighing
GENDER	Male, Female
RACE	Race
CHINSF	Chin Skinfold
CHSTSF	Chest Skinfold
SCAPSF	Subscapular Skinfold
TRICEPSF	Triceps Skinfold
MIDAXSF	Midaxillary Skinfold
WAISTSF	Waist Skinfold
SUPRASF	Suprailiac Skinfold
ABDSF	Abdomen Skinfold
THISF	Thigh Skinfold
KNEESF	Knee Skinfold
CALFSF	Calf Skinfold
BICEPSF	Biceps Skinfold
HEADC	Head Circumference
SHOULC	Shoulder Circumference
CHSTC	Chest Circumference
ABD1C	Abdomen 1 Circumference
ABD2C	Abdomen 2 Circumference
HIPC	Hip Circumference
THIC	Thigh Circumference
BICEPC	Bicep Circumference
FOREC	Forearm Circumference
WRISTC	Wrist Circumference
KNEEC	Knee Circumference
CALFC	Calf Circumference
ANKLEC	Ankle Circumference
NECKC	Neck Circumference
FLXBICC	Flexed Bicep Circumference
AGE	Age
HT	Height
WT	Weight
BIACD	Biacromial Diameter
BIDELD	Bideltoid Diameter
IILIACD	Biiliac Diameter
BITROD	Bitrochanter Diameter
KNEED	Knee Diameter
ANKLED	Ankle Diameter

CHSTD	Chest Diameter
ELBOWD	Elbow Diameter
WRISTD	Wrist Diameter
VO2LMIN	$\dot{V}O_2$max liters/min
VO2MLKG	$\dot{V}O_2$max ml/kg/min
HR	Heart Rate
DYLIFT	Incremental Dynamic Lift
VE	VE Max liters/min
R	Respiratory Quotient
VCO2	VCO_2max liters/min
VEVO2	Ventilatory Equivalent
TMSPEED	Treadmill Speed (max)
TMGRADE	Treadmill Grade (max)
VC	Vital Capacity
RLV	Residual Lung Volume
UWDEN	Body Density*
UWPCBF	Percent Body Fat*
UWLBM	Lean Body Mass*
UWFBF	Fat Mass*

* From Underwater Weighing

SUMS	Sum of 4 Skinfolds*
DWPCFFET	Percent Body Fat*
SUMSA	Sum of all skinfolds
DWPCBF	Percent Body Fat **
ENDO	Endomorphy
MESD	Mesomorphy
ECTO	Ectomorphy
AVUNIR	Uniform Rating
AVSSR	Swimsuit Rating
KRATING	Visual Appraisal Score

* Durnin and Womersley Method

** Durnin and Womersley Method, Army Modification

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
TIMESER	1.0000 (1126) P= .000	.7636 (1126) P= .000	-0.0107 (1111) P= .361	.0014 (1116) P= .481	.4485 (1108) P= .000	-0.4262 (1014) P= .000	-0.5013 (1014) P= .000	.3936 (1006) P= .000	-0.2888 (833) P= .000	. (1126) P= .	. (1126) P= .
RANK	.7636 (1126) P= .000	1.0000 (1128) P= .000	-0.0515 (1112) P= .043	-0.0983 (1117) P= .001	.5037 (1109) P= .000	-0.3648 (1014) P= .000	-0.3968 (1014) P= .000	.2446 (1006) P= .000	-0.0718 (833) P= .019	. (1128) P= .	. (1128) P= .
CARMGMT	-0.0107 (1111) P= .361	-0.0515 (1112) P= .043	1.0000 (1112) P= .000	.2831 (1106) P= .000	.1448 (1097) P= .000	-0.0502 (1005) P= .056	-0.0286 (1006) P= .188	.0786 (998) P= .007	-0.0887 (831) P= .005	. (1112) P= .	. (1112) P= .
PRIMOS	.0014 (1116) P= .481	-0.0983 (1117) P= .001	.2831 (1106) P= .000	1.0000 (1117) P= .000	.2383 (1103) P= .000	-0.0871 (1013) P= .003	-0.0542 (1014) P= .042	.1614 (1006) P= .000	-0.2066 (833) P= .000	. (1117) P= .	. (1117) P= .
UNITYPE	.4485 (1108) P= .000	.5037 (1109) P= .000	.1448 (1097) P= .000	.2383 (1103) P= .000	1.0000 (1109) P= .000	-0.2150 (1002) P= .000	-0.2738 (1003) P= .000	.1818 (996) P= .000	-0.1205 (822) P= .000	. (1109) P= .	. (1109) P= .
SITUP	-0.4262 (1014) P= .000	-0.3648 (1014) P= .000	-0.0502 (1005) P= .056	-0.0871 (1013) P= .003	-0.2150 (1002) P= .000	1.0000 (1014) P= .000	.7099 (1009) P= .000	-0.4981 (994) P= .000	.7475 (801) P= .000	. (1014) P= .	. (1014) P= .
PUSHUP	-0.5013 (1014) P= .000	-0.3968 (1014) P= .000	-0.0286 (1006) P= .188	-0.0542 (1014) P= .042	-0.2738 (1003) P= .000	.7099 (1009) P= .000	1.0000 (1014) P= .000	-0.4848 (994) P= .000	.7398 (802) P= .000	. (1014) P= .	. (1014) P= .
TWOMILE	.3936 (1006) P= .000	.2446 (1006) P= .000	.0786 (998) P= .007	.1614 (1006) P= .000	.1818 (996) P= .000	-0.4981 (994) P= .000	-0.4848 (994) P= .000	1.0000 (1006) P= .000	-0.6701 (796) P= .000	. (1006) P= .	. (1006) P= .
PTSCORE	-0.2888 (833) P= .000	-0.0718 (833) P= .019	-0.0887 (831) P= .005	-0.2066 (833) P= .000	-0.1205 (822) P= .000	.7475 (801) P= .000	.7398 (802) P= .000	-0.6701 (796) P= .000	1.0000 (833) P= .000	. (833) P= .	. (833) P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
TIMESER	-0.1258 (1126) P= .000	.4422 (1125) P= .000	.4384 (1125) P= .000	.2878 (1125) P= .000	.1397 (1125) P= .000	.3040 (1125) P= .000	.2371 (1125) P= .000	.2390 (1125) P= .000	.3909 (1125) P= .000	.1705 (1124) P= .000	-0.0478 (1125) P= .055
RANK	-0.1925 (1128) P= .000	.3889 (1127) P= .000	.3424 (1127) P= .000	.1778 (1127) P= .000	.0937 (1127) P= .001	.2354 (1127) P= .000	.1798 (1127) P= .000	.1872 (1127) P= .000	.3131 (1127) P= .000	.1603 (1126) P= .000	-0.0734 (1127) P= .007
CARMGMT	.0320 (1112) P= .143	.0175 (1111) P= .280	.0655 (1111) P= .014	.0673 (1111) P= .012	-0.0026 (1111) P= .465	.0454 (1111) P= .065	.0386 (1111) P= .099	.0348 (1111) P= .124	.0446 (1111) P= .069	-0.0013 (1110) P= .482	.0069 (1111) P= .410
PRIMOS	.0749 (1117) P= .006	.0213 (1116) P= .239	.0678 (1116) P= .012	.0630 (1116) P= .018	.0019 (1116) P= .475	.0120 (1116) P= .345	-0.0032 (1116) P= .458	.0017 (1116) P= .477	.0206 (1116) P= .246	-0.0054 (1115) P= .428	-0.0118 (1116) P= .347
UNITYPE	-0.1288 (1109) P= .000	.2377 (1108) P= .000	.2739 (1108) P= .000	.0991 (1108) P= .000	.0442 (1108) P= .071	.1288 (1108) P= .000	.0798 (1108) P= .004	.1128 (1108) P= .000	.1968 (1108) P= .000	.0767 (1107) P= .005	-0.0446 (1108) P= .069
SITUP	.1278 (1014) P= .000	-0.4075 (1013) P= .000	-0.4125 (1013) P= .000	-0.3287 (1013) P= .000	-0.2598 (1013) P= .000	-0.3279 (1013) P= .000	-0.2923 (1013) P= .000	-0.2842 (1013) P= .000	-0.3764 (1013) P= .000	-0.2316 (1013) P= .000	-0.0335 (1013) P= .144
PUSHUP	.1582 (1014) P= .000	-0.4022 (1013) P= .000	-0.4087 (1013) P= .000	-0.3109 (1013) P= .000	-0.2777 (1013) P= .000	-0.3448 (1013) P= .000	-0.2954 (1013) P= .000	-0.2974 (1013) P= .000	-0.3789 (1013) P= .000	-0.2950 (1013) P= .000	-0.0157 (1013) P= .308
TWOMILE	-0.0832 (1006) P= .004	.3895 (1005) P= .000	.4519 (1005) P= .000	.4189 (1005) P= .000	.3297 (1005) P= .000	.3975 (1005) P= .000	.3757 (1005) P= .000	.3757 (1005) P= .000	.4544 (1005) P= .000	.3271 (1005) P= .000	.1319 (1005) P= .000
PTSCORE	.0519 (833) P= .067	-0.3335 (833) P= .000	-0.3973 (833) P= .000	-0.3484 (833) P= .000	-0.3188 (833) P= .000	-0.3434 (833) P= .000	-0.3168 (833) P= .000	-0.3152 (833) P= .000	-0.3696 (833) P= .000	-0.2976 (832) P= .000	-0.0848 (833) P= .008

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
TIMESER	-0.0088 (1124) P= .384	.2169 (1124) P= .000	.2224 (1125) P= .000	.1197 (1125) P= .000	.3223 (1124) P= .000	.4015 (1125) P= .000	.4113 (1126) P= .000	.2121 (1125) P= .000	.1459 (1123) P= .000	.1161 (1126) P= .000	.0295 (1125) P= .162
RANK	-0.0136 (1126) P= .325	.1500 (1126) P= .000	.2149 (1127) P= .000	.0808 (1127) P= .003	.2413 (1126) P= .000	.2963 (1127) P= .000	.3190 (1128) P= .000	.1378 (1127) P= .000	.0948 (1125) P= .001	.0677 (1128) P= .011	-0.0184 (1127) P= .269
CARMGMT	-0.0095 (1110) P= .375	.0466 (1110) P= .061	.0084 (1111) P= .390	.0280 (1111) P= .175	.0400 (1110) P= .092	.0526 (1111) P= .040	.0597 (1112) P= .023	.0343 (1111) P= .127	.0102 (1109) P= .367	.0135 (1112) P= .326	.0047 (1111) P= .438
PRIMOS	-0.0014 (1115) P= .482	.0242 (1115) P= .209	.0309 (1116) P= .151	.0288 (1116) P= .168	.0317 (1115) P= .145	.0534 (1116) P= .037	.0528 (1117) P= .039	.0491 (1116) P= .050	.0536 (1114) P= .037	.0043 (1117) P= .443	.0002 (1116) P= .497
UNITYPE	-0.0174 (1107) P= .282	.0616 (1107) P= .020	.1810 (1108) P= .000	.0504 (1108) P= .047	.1440 (1107) P= .000	.1821 (1108) P= .000	.2173 (1109) P= .000	.1123 (1108) P= .000	.0721 (1106) P= .008	.0413 (1109) P= .085	-0.0253 (1108) P= .200
SITUP	-0.1800 (1012) P= .000	-0.3186 (1012) P= .000	-0.1921 (1013) P= .000	-0.1293 (1013) P= .000	-0.2921 (1012) P= .000	-0.3770 (1013) P= .000	-0.3877 (1014) P= .000	-0.2572 (1013) P= .000	-0.1035 (1011) P= .000	-0.0757 (1014) P= .008	-0.0449 (1013) P= .077
PUSHUP	-0.1846 (1012) P= .000	-0.3127 (1012) P= .000	-0.1343 (1013) P= .000	-0.0338 (1013) P= .141	-0.2113 (1012) P= .000	-0.3395 (1013) P= .000	-0.3666 (1014) P= .000	-0.2635 (1013) P= .000	-0.0908 (1011) P= .002	-0.0132 (1014) P= .337	.0305 (1013) P= .166
TWOMILE	.2502 (1004) P= .000	.3670 (1004) P= .000	.1369 (1005) P= .000	.2007 (1005) P= .000	.3239 (1004) P= .000	.4350 (1005) P= .000	.4515 (1006) P= .000	.3424 (1005) P= .000	.2299 (1003) P= .000	.2073 (1006) P= .000	.1340 (1005) P= .000
PTSCORE	-0.2353 (832) P= .000	-0.3101 (832) P= .000	-0.0982 (832) P= .002	-0.1115 (832) P= .001	-0.2430 (831) P= .000	-0.3377 (833) P= .000	-0.3639 (833) P= .000	-0.3122 (832) P= .000	-0.1593 (830) P= .000	-0.1057 (833) P= .001	-0.0438 (832) P= .103

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
TIMESER	.0760 (1125) P= .005	.1154 (1126) P= .000	.1255 (1126) P= .000	-0.0239 (1123) P= .212	.2021 (1124) P= .000	.1000 (1126) P= .000	.8852 (1126) P= .000	.1525 (1122) P= .000	.2932 (1126) P= .000	.0172 (1126) P= .282	-0.0360 (1126) P= .113
RANK	.0352 (1127) P= .119	.0964 (1128) P= .001	.1016 (1128) P= .000	.0062 (1125) P= .418	.1437 (1126) P= .000	.0531 (1128) P= .037	.7943 (1128) P= .000	.2121 (1124) P= .000	.2408 (1128) P= .000	.1615 (1128) P= .000	.0252 (1128) P= .199
CARMGMT	.0173 (1111) P= .282	-0.0233 (1112) P= .219	.0073 (1112) P= .404	.0102 (1109) P= .367	.0545 (1110) P= .035	.0138 (1112) P= .323	-0.0157 (1112) P= .301	-0.0570 (1108) P= .029	.0204 (1112) P= .249	-0.0813 (1112) P= .003	-0.0280 (1112) P= .176
PRIMOS	-0 024 (1116) P= .469	-0.0305 (1117) P= .154	-0.0175 (1117) P= .280	-0.0705 (1114) P= .009	.0673 (1115) P= .012	.0312 (1117) P= .149	.0111 (1117) P= .355	-0.0225 (1113) P= .227	.0301 (1117) P= .158	-0.2147 (1117) P= .000	-0.1168 (1117) P= .000
UNITYPE	.0413 (1108) P= .085	.0775 (1109) P= .005	.0237 (1109) P= .215	.0189 (1106) P= .265	.0989 (1107) P= .000	.0392 (1109) P= .096	.5038 (1109) P= .000	.1680 (1105) P= .000	.1625 (1109) P= .000	.1134 (1109) P= .000	.0782 (1109) P= .005
SITUP	-0.1034 (1013) P= .000	-0.1046 (1014) P= .000	-0.1589 (1014) P= .000	-0.0491 (1012) P= .059	-0.1822 (1012) P= .000	-0.0618 (1014) P= .025	-0.4470 (1014) P= .000	-0.1093 (1010) P= .000	-0.2683 (1014) P= .000	.0503 (1014) P= .055	-0.0211 (1014) P= .251
PUSHUP	-0.0451 (1013) P= .076	-0.1078 (1014) P= .000	-0.1247 (1014) P= .000	-0.0279 (1012) P= .187	-0.0983 (1012) P= .001	.0241 (1014) P= .222	-0.5179 (1014) P= .000	-0.1541 (1010) P= .000	-0.2533 (1014) P= .000	.0135 (1014) P= .334	.0369 (1014) P= .120
TWOMILE	.1392 (1005) P= .000	.1673 (1006) P= .000	.2287 (1006) P= .000	.0683 (1004) P= .015	.2139 (1004) P= .000	.1587 (1006) P= .000	.3981 (1006) P= .000	.0408 (1002) P= .098	.3293 (1006) P= .000	-0.1006 (1006) P= .001	.0229 (1006) P= .234
PTSCORE	-0.0991 (832) P= .002	-0.1147 (833) P= .000	-0.1815 (833) P= .000	-0.0650 (832) P= .030	-0.1683 (831) P= .000	-0.0611 (833) P= .039	-0.2711 (833) P= .000	-0.0323 (829) P= .176	-0.2484 (833) P= .000	.1601 (833) P= .000	.0205 (833) P= .277

PEARSON CORRELATION COEFFICIENTS (MALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
TIMESER	.1615 (1124) P= .000	.0702 (1126) P= .009	.0263 (1126) P= .189	.1095 (1125) P= .000	.1465 (1124) P= .000	.0903 (1123) P= .001	.1693 (1125) P= .000	-0.2377 (751) P= .000	-0.3758 (962) P= .000	-0.4348 (960) P= .000	-0.1967 (800) P= .000
RANK	.2614 (1126) P= .000	.1744 (1128) P= .000	-0.0021 (1128) P= .472	.1280 (1127) P= .000	.2408 (1126) P= .000	.0887 (1125) P= .001	.1752 (1127) P= .000	-0.0692 (753) P= .029	-0.2162 (964) P= .000	-0.3936 (962) P= .000	-0.1176 (802) P= .000
CARMGMT	-0.0651 (1110) P= .015	-0.0804 (1112) P= .004	-0.0019 (1112) P= .474	-0.0744 (1111) P= .007	-0.0681 (1110) P= .012	-0.0315 (1109) P= .147	-0.0251 (1111) P= .201	-0.0447 (751) P= .111	-0.0850 (949) P= .004	-0.0014 (947) P= .483	-0.0462 (800) P= .096
PRIMOS	-0.1705 (1115) P= .000	-0.1851 (1117) P= .000	.0170 (1117) P= .285	-0.0453 (1116) P= .065	-0.1798 (1115) P= .000	-0.0865 (1114) P= .002	-0.0556 (1116) P= .032	-0.0810 (752) P= .013	-0.1321 (953) P= .000	.0164 (951) P= .307	-0.1527 (801) P= .000
UNITYPE	.1943 (1107) P= .000	.1127 (1109) P= .000	.0564 (1109) P= .030	.0399 (1108) P= .092	.1459 (1107) P= .000	.0299 (1106) P= .160	.1252 (1108) P= .000	-0.0418 (741) P= .128	-0.1266 (948) P= .000	-0.2555 (946) P= .000	-0.0818 (789) P= .011
SITUP	-0.1351 (1012) P= .000	-0.0692 (1014) P= .014	-0.0690 (1014) P= .014	-0.0188 (1013) P= .278	-0.1070 (1012) P= .000	-0.1056 (1012) P= .000	-0.0785 (1013) P= .007	.1919 (701) P= .000	.4101 (874) P= .000	.2143 (872) P= .000	.2245 (743) P= .000
PUSHUP	-0.2054 (1012) P= .000	-0.1400 (1014) P= .000	-0.0485 (1014) P= .061	-0.0384 (1013) P= .111	-0.1074 (1012) P= .000	-0.0664 (1012) P= .017	-0.0918 (1013) P= .002	.2328 (703) P= .000	.4155 (873) P= .000	.2874 (871) P= .000	.2860 (747) P= .000
TWOMILE	.0531 (1004) P= .046	.0151 (1006) P= .316	.0893 (1006) P= .002	.0181 (1005) P= .283	.0696 (1005) P= .014	.0830 (1005) P= .004	.0879 (1006) P= .003	-0.2805 (696) P= .000	-0.6450 (866) P= .000	-0.2312 (864) P= .000	-0.1358 (737) P= .000
PTSCORE	-0.0164 (831) P= .318	.0059 (833) P= .433	-0.0862 (833) P= .008	.0201 (832) P= .281	.0194 (831) P= .288	-0.0245 (830) P= .241	-0.0430 (832) P= .108	.2005 (708) P= .000	.4913 (713) P= .000	.1066 (711) P= .002	.1982 (750) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
TIMESER	-0.1053 (751) P= .002	-0.0577 (751) P= .057	-0.4437 (751) P= .000	.1459 (751) P= .000	-0.2651 (751) P= .000	-0.3199 (751) P= .000	.1087 (1122) P= .000	.4925 (999) P= .000	-0.4129 (1125) P= .000	.4126 (1125) P= .000	.0524 (1125) P= .040
RANK	-0.0138 (753) P= .353	-0.1044 (753) P= .002	-0.2955 (753) P= .000	.0687 (753) P= .030	-0.1359 (753) P= .000	-0.1630 (753) P= .000	.2334 (1123) P= .000	.5474 (1000) P= .000	-0.3250 (1126) P= .000	.3232 (1126) P= .000	.0665 (1126) P= .013
CARMGMT	-0.0850 (751) P= .010	-0.0431 (751) P= .119	-0.0937 (751) P= .005	-0.0817 (751) P= .013	-0.1144 (751) P= .001	-0.1059 (751) P= .002	-0.0571 (1108) P= .029	-0.0776 (985) P= .007	-0.0402 (1111) P= .090	.0413 (1111) P= .084	-0.0073 (1111) P= .404
PRIMOS	-0.0936 (752) P= .005	-0.1028 (752) P= .002	-0.1802 (752) P= .000	-0.0195 (752) P= .296	-0.1190 (752) P= .001	-0.0856 (752) P= .009	-0.0987 (1113) P= .000	-0.0984 (990) P= .001	-0.0593 (1116) P= .024	.0599 (1116) P= .023	-0.0085 (1116) P= .389
UNITYPE	.0140 (741) P= .351	-0.0278 (741) P= .225	-0.1723 (741) P= .000	.0760 (741) P= .019	-0.1054 (741) P= .002	-0.0944 (741) P= .005	.1150 (1105) P= .000	.3582 (984) P= .000	-0.1989 (1108) P= .000	.1960 (1108) P= .000	.0631 (1108) P= .018
SITUP	.0307 (701) P= .209	-0.0051 (701) P= .448	.4033 (701) P= .000	-0.1862 (701) P= .000	.2927 (701) P= .000	.3446 (701) P= .000	-0.0498 (1010) P= .057	-0.2270 (893) P= .000	.4295 (1013) P= .000	-0.4294 (1013) P= .000	.0020 (1013) P= .474
PUSHUP	.0562 (703) P= .068	-0.0074 (703) P= .422	.3986 (703) P= .000	-0.1851 (703) P= .000	.3897 (703) P= .000	.3277 (703) P= .000	-0.0175 (1011) P= .289	-0.2866 (893) P= .000	.4155 (1013) P= .000	-0.4167 (1013) P= .000	.0082 (1013) P= .397
TWOMILE	-0.1124 (696) P= .001	-0.1220 (696) P= .001	-0.6307 (696) P= .000	.1773 (696) P= .000	-0.4131 (696) P= .000	-0.5088 (696) P= .000	-0.0044 (1002) P= .444	.1261 (885) P= .000	-0.5122 (1005) P= .000	.5129 (1005) P= .000	.0083 (1005) P= .397
PTSCORE	.0376 (708) P= .159	.0040 (708) P= .457	.4385 (708) P= .000	-0.1804 (708) P= .000	.3360 (708) P= .000	.4225 (708) P= .000	.0320 (831) P= .179	-0.0097 (711) P= .398	.4120 (833) P= .000	-0.4131 (833) P= .000	.0103 (833) P= .383

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
TIMESER	.4070 (1125) P= .000	.2631 (1125) P= .000	.5689 (1124) P= .000	.2618 (1125) P= .000	.5625 (1121) P= .000	.2660 (1122) P= .000	.0175 (1122) P= .279	-0.2024 (1122) P= .000	-0.0659 (989) P= .019	-0.2630 (863) P= .000	.3292 (861) P= .000
RANK	.3159 (1126) P= .000	.1856 (1127) P= .000	.5092 (1126) P= .000	.1846 (1127) P= .000	.4978 (1123) P= .000	.2004 (1124) P= .000	-0.0033 (1124) P= .017	-0.1286 (1124) P= .000	.0595 (991) P= .030	-0.1151 (865) P= .000	.2211 (863) P= .000
CARMGMT	.0419 (1111) P= .081	.0428 (1111) P= .077	.0083 (1110) P= .391	.0425 (1111) P= .078	.0043 (1107) P= .443	.0322 (1108) P= .142	.0352 (1108) P= .121	-0.0573 (1108) P= .028	-0.0853 (978) P= .004	-0.0325 (851) P= .172	.0241 (849) P= .242
PRIMOS	.0602 (1116) P= .022	.0237 (1116) P= .214	-0.0050 (1115) P= .433	.0293 (1116) P= .164	.0046 (1112) P= .439	.0170 (1113) P= .286	-0.0004 (1113) P= .495	-0.0198 (1113) P= .255	-0.0506 (984) P= .056	-0.0805 (856) P= .009	.6412 (854) P= .114
UNITYPE	.1984 (1108) P= .000	.1029 (1108) P= .000	.3121 (1107) P= .000	.1056 (1108) P= .000	.3091 (1104) P= .000	.1098 (1105) P= .000	-0.0552 (1105) P= .033	-0.0562 (1105) P= .031	.0183 (972) P= .285	-0.0912 (852) P= .004	.1482 (850) P= .000
SITUP	-0.4209 (1013) P= .000	-0.3351 (1013) P= .000	-0.4547 (1012) P= .000	-0.3319 (1013) P= .000	-0.4464 (1009) P= .000	-0.3338 (1010) P= .000	-0.0244 (1010) P= .219	.1747 (1010) P= .000	.2081 (897) P= .000	.3505 (773) P= .000	-0.3645 (771) P= .000
PUSHUP	-0.4059 (1013) P= .000	-0.3398 (1013) P= .000	-0.5021 (1012) P= .000	-0.3370 (1013) P= .000	-0.4858 (1009) P= .000	-0.3429 (1010) P= .000	.0611 (1010) P= .026	.1216 (1010) P= .000	.1550 (896) P= .000	.3425 (771) P= .000	-0.3461 (769) P= .000
TWOMILE	.5049 (1005) P= .000	.4286 (1005) P= .000	.4763 (1004) P= .000	.4232 (1005) P= .000	.4722 (1001) P= .000	.4112 (1002) P= .000	.1487 (1002) P= .000	-0.2987 (1002) P= .000	-0.3366 (889) P= .000	-0.4387 (768) P= .000	.4461 (766) P= .000
PTSCORE	-0.4119 (833) P= .000	-0.3660 (833) P= .000	-0.3882 (831) P= .000	-0.3624 (833) P= .000	-0.3751 (828) P= .000	-0.3554 (829) P= .000	-0.0815 (829) P= .009	.1828 (829) P= .000	.3629 (741) P= .000	.3963 (614) P= .000	-0.3792 (613) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	MY	GENDER
TIMESER	1.0000	.3476	-0.0208	-0.0192	.0141	-0.2470	-0.1137	.1350	-0.0522	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(254)	(254)	(256)	(271)	(271)
	P= .000	P= .000	P= .367	P= .376	P= .409	P= .000	P= .035	P= .016	P= .203	P= .	P= .
RANK	.3476	1.0000	-0.0297	-0.0530	-0.0374	-0.0100	-0.0023	-0.0690	.1044	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .000	P= .000	P= .313	P= .192	P= .270	P= .437	P= .161	P= .137	P= .048	P= .	P= .
CARMGMT	-0.0208	-0.0297	1.0000	-0.1237	-0.0248	-0.0290	.0546	-0.0082	-0.0186	.	.
	(270)	(270)	(270)	(270)	(269)	(254)	(254)	(253)	(255)	(270)	(270)
	P= .367	P= .313	P= .000	P= .021	P= .342	P= .323	P= .193	P= .449	P= .383	P= .	P= .
PRIMOS	-0.0192	-0.0530	-0.1237	1.0000	.2138	-0.0124	-0.0291	-0.0256	.0500	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .376	P= .192	P= .021	P= .000	P= .000	P= .422	P= .322	P= .342	P= .213	P= .	P= .
UNITYPE	.0141	-0.0374	-0.0248	.2138	1.0000	.0780	-0.0526	-0.0683	.0717	.	.
	(270)	(270)	(269)	(270)	(270)	(254)	(254)	(253)	(255)	(270)	(270)
	P= .409	P= .270	P= .342	P= .000	P= .000	P= .108	P= .202	P= .140	P= .127	P= .	P= .
SITUP	-0.2470	-0.0100	-0.0290	-0.0124	.0780	1.0000	.3918	-0.4227	.5371	.	.
	(255)	(255)	(254)	(255)	(254)	(255)	(255)	(252)	(251)	(255)	(255)
	P= .000	P= .437	P= .323	P= .422	P= .108	P= .000	P= .000	P= .000	P= .000	P= .	P= .
PUSHUP	-0.1137	-0.0023	.0546	-0.0291	-0.0526	.3918	1.0000	-0.3905	.5742	.	.
	(255)	(255)	(254)	(255)	(254)	(255)	(255)	(252)	(251)	(255)	(255)
	P= .035	P= .161	P= .193	P= .322	P= .202	P= .000	P= .000	P= .000	P= .000	P= .	P= .
TWOMILE	.1350	-0.0690	-0.0082	-0.0256	-0.0683	-0.4227	-0.3905	1.0000	-0.6497	.	.
	(254)	(254)	(253)	(254)	(253)	(252)	(252)	(254)	(252)	(254)	(254)
	P= .016	P= .137	P= .449	P= .342	P= .140	P= .000	P= .000	P= .000	P= .000	P= .	P= .
PTSCORE	-0.0522	.1044	-0.0186	.0500	.0717	.5371	.5742	-0.6497	1.0000	.	.
	(256)	(256)	(255)	(256)	(255)	(251)	(251)	(252)	(256)	(256)	(256)
	P= .203	P= .048	P= .383	P= .213	P= .127	P= .000	P= .000	P= .000	P= .000	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
TIMESER	.1216	.2211	.2098	.1516	.0880	.1505	.0356	.0703	.1252	.0540	.0436
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .023	P= .000	P= .000	P= .006	P= .074	P= .007	P= .280	P= .124	P= .020	P= .188	P= .238
RANK	-0.1100	.0180	.0795	.0264	-0.0454	.0389	-0.0568	-0.0353	.0486	-0.0513	.0160
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .035	P= .384	P= .096	P= .332	P= .228	P= .262	P= .178	P= .281	P= .223	P= .200	P= .397
CARMGMT	-0.0562	-0.0096	-0.0853	.0176	.0512	-0.0796	.0596	.0461	.0747	.0912	-0.0105
	(270)	(270)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(270)	(270)
	P= .179	P= .438	P= .081	P= .387	P= .201	P= .097	P= .165	P= .225	P= .110	P= .067	P= .432
PRIMOS	-0.0028	.0403	-0.0056	-0.0819	-0.1080	-0.0662	-0.1294	-0.1195	-0.0894	-0.1455	-0.0723
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .482	P= .254	P= .463	P= .089	P= .038	P= .139	P= .017	P= .025	P= .071	P= .008	P= .110
UNITYPE	-0.0120	-0.0392	-0.0195	-0.0140	.0481	-0.0498	-0.0105	-0.0153	-0.0122	-0.0213	-0.0760
	(270)	(270)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(270)	(270)
	P= .422	P= .261	P= .375	P= .409	P= .215	P= .208	P= .432	P= .401	P= .421	P= .364	P= .104
SITUP	.0532	-0.2531	-0.2474	-0.2179	-0.2203	-0.1882	-0.1563	-0.1437	-0.1748	-0.1624	-0.1993
	(255)	(255)	(255)	(255)	(255)	(254)	(255)	(255)	(255)	(255)	(255)
	P= .199	P= .000	P= .000	P= .000	P= .000	P= .001	P= .006	P= .011	P= .003	P= .007	P= .001
PUSHUP	.1128	-0.2259	-0.1740	-0.2460	-0.2647	-0.1463	-0.1958	-0.1680	-0.2126	-0.2267	-0.0909
	(255)	(255)	(255)	(255)	(255)	(254)	(255)	(255)	(255)	(255)	(255)
	P= .036	P= .000	P= .003	P= .000	P= .000	P= .010	P= .001	P= .004	P= .000	P= .000	P= .074
TWOMILE	-0.0947	.2525	.2809	.3155	.3735	.2368	.2148	.1982	.2719	.2570	.1301
	(254)	(254)	(254)	(254)	(254)	(253)	(254)	(254)	(254)	(254)	(254)
	P= .068	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .000	P= .019
PTSCORE	.0603	-0.2131	-0.1898	-0.2602	-0.2397	-0.1789	-0.1833	-0.1566	-0.1525	-0.2060	-0.1411
	(256)	(256)	(256)	(256)	(256)	(255)	(256)	(256)	(256)	(256)	(256)
	P= .168	P= .000	P= .001	P= .000	P= .000	P= .002	P= .002	P= .006	P= .007	P= .000	P= .012

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
TIMESER	.0283	.1482	-0.0090	.0318	.1400	.1194	.2106	.1475	.0426	.0748	-0.0193
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .321	P= .007	P= .441	P= .302	P= .011	P= .025	P= .000	P= .008	P= .242	P= .110	P= .376
RANK	-0.0278	.0368	.0734	.0092	-0.0085	.0590	.0755	.0705	.0375	-0.0359	.0059
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .324	P= .273	P= .115	P= .440	P= .445	P= .167	P= .108	P= .124	P= .451	P= .283	P= .462
CARMGMT	.0306	.0494	.0551	.1035	.0300	-0.0002	.0317	.0604	.0503	.0886	.1082
	(270)	(270)	(269)	(269)	(269)	(269)	(269)	(269)	(270)	(270)	(270)
	P= .308	P= .209	P= .184	P= .045	P= .312	P= .499	P= .302	P= .162	P= .205	P= .073	P= .038
PRIMOS	-0.1760	-0.1098	-0.0944	-0.0527	-0.1114	-0.1317	-0.1162	.0001	-0.0413	-0.1462	-0.1465
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .002	P= .036	P= .061	P= .194	P= .034	P= .015	P= .028	P= .500	P= .249	P= .008	P= .008
UNITYPE	-0.0732	-0.0666	.0194	.0753	.0395	.0400	.0345	.0875	.1327	.0606	.0194
	(270)	(270)	(269)	(269)	(269)	(269)	(269)	(269)	(270)	(270)	(270)
	P= .115	P= .138	P= .376	P= .109	P= .259	P= .257	P= .287	P= .076	P= .015	P= .160	P= .375
SITUP	-0.1617	-0.2484	-0.1080	-0.1138	-0.2084	-0.1897	-0.2124	-0.1375	-0.0378	-0.1804	-0.0738
	(255)	(255)	(254)	(254)	(254)	(254)	(254)	(254)	(255)	(255)	(255)
	P= .005	P= .000	P= .043	P= .035	P= .000	P= .001	P= .000	P= .014	P= .274	P= .002	P= .126
PUSHUP	-0.2393	-0.2549	-0.1312	-0.0889	-0.1949	-0.2628	-0.2601	-0.2417	-0.2039	-0.1508	-0.0588
	(255)	(255)	(254)	(254)	(254)	(254)	(254)	(254)	(255)	(255)	(255)
	P= .000	P= .000	P= .018	P= .079	P= .001	P= .000	P= .000	P= .000	P= .001	P= .008	P= .175
TWOMILE	.3024	.3923	-0.1104	.0673	.2156	.2502	.2008	.2614	.2449	.2868	.1014
	(254)	(254)	(253)	(254)	(253)	(253)	(253)	(253)	(254)	(254)	(254)
	P= .000	P= .000	P= .040	P= .143	P= .000	P= .000	P= .001	P= .000	P= .000	P= .000	P= .053
PTSCORE	-0.2707	-0.2511	-0.0980	-0.0520	-0.1423	-0.1825	-0.1852	-0.1463	-0.1326	-0.1388	-0.0461
	(256)	(256)	(255)	(256)	(255)	(255)	(255)	(255)	(256)	(256)	(256)
	P= .000	P= .000	P= .059	P= .203	P= .012	P= .002	P= .001	P= .010	P= .017	P= .013	P= .232

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
TIMESER	.0526 (271) P= .194	.0424 (271) P= .244	.0326 (271) P= .296	-0.0348 (271) P= .285	.0453 (270) P= .229	.0593 (268) P= .167	.5198 (271) P= .000	.0154 (271) P= .400	.1014 (271) P= .048	-0.0070 (271) P= .455	.0295 (271) P= .315
RANK	-0.0611 (271) P= .158	.1303 (271) P= .016	-0.0675 (271) P= .134	-0.0680 (271) P= .132	.0080 (270) P= .448	-0.0416 (268) P= .249	.4127 (271) P= .000	.1455 (271) P= .008	.0679 (271) P= .133	-0.0797 (271) P= .095	-0.1055 (271) P= .042
CARMGMT	.0050 (270) P= .467	.0672 (270) P= .135	.1093 (270) P= .036	.0789 (270) P= .098	.0699 (269) P= .127	.0941 (267) P= .063	-0.0749 (270) P= .110	-0.0234 (270) P= .351	.0513 (270) P= .200	.1273 (270) P= .018	.0862 (270) P= .079
PRIMOS	-0.0912 (271) P= .067	-0.0534 (271) P= .191	-0.0617 (271) P= .156	-0.0316 (271) P= .303	-0.0721 (270) P= .119	-0.1383 (268) P= .012	.0202 (271) P= .370	.0067 (271) P= .457	-0.0911 (271) P= .067	-0.1330 (271) P= .014	-0.1456 (271) P= .008
UNITYPE	-0.0635 (270) P= .149	.0647 (270) P= .145	.0422 (270) P= .245	.0097 (270) P= .437	-0.0360 (269) P= .278	.0940 (267) P= .063	.0084 (270) P= .445	.0378 (270) P= .268	.0697 (270) P= .127	.0006 (270) P= .496	.0251 (270) P= .341
SITUP	-0.0098 (255) P= .438	-0.0853 (255) P= .087	-0.1371 (255) P= .014	-0.0356 (255) P= .286	-0.1107 (254) P= .039	-0.0770 (252) P= .112	-0.3228 (255) P= .000	.0777 (255) P= .108	-0.1326 (255) P= .017	.0107 (255) P= .433	-0.0586 (255) P= .176
PUSHUP	.1017 (256) P= .053	-0.2010 (255) P= .001	-0.1931 (255) P= .001	-0.1152 (255) P= .033	-0.0600 (254) P= .171	-0.0875 (252) P= .083	-0.2353 (255) P= .000	-0.2353 (255) P= .000	-0.2977 (255) P= .000	.0448 (255) P= .238	.0226 (255) P= .360
TWOMILE	-0.1718 (254) P= .003	.1758 (254) P= .002	.2508 (254) P= .000	.0620 (254) P= .163	.0371 (253) P= .278	.1664 (251) P= .004	.2080 (254) P= .000	-0.0088 (254) P= .445	.2287 (254) P= .000	-0.1239 (254) P= .024	-0.0502 (254) P= .213
PTSCORE	.1081 (256) P= .042	-0.1309 (256) P= .018	-0.1761 (256) P= .002	-0.0705 (256) P= .131	-0.0619 (255) P= .162	-0.0063 (253) P= .460	-0.0067 (256) P= .458	-0.0509 (256) P= .209	-0.1770 (256) P= .002	.0591 (256) P= .173	-0.0261 (256) P= .339

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	IILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
TIMESER	.0628 (270) P= .152	.0932 (271) P= .063	.0323 (271) P= .298	-0.0493 (271) P= .210	-0.0074 (271) P= .452	.0621 (271) P= .154	.0536 (270) P= .190	-0.0647 (237) P= .161	-0.2245 (238) P= .000	-0.1654 (238) P= .005	-0.0960 (243) P= .068
RANK	-0.0362 (270) P= .277	-0.0674 (271) P= .135	.1127 (271) P= .032	-0.0328 (271) P= .296	-0.1967 (271) P= .001	.0910 (271) P= .068	.0192 (270) P= .377	.0628 (237) P= .168	-0.0324 (238) P= .309	-0.1463 (238) P= .015	.0148 (243) P= .414
CARMGMT	.0882 (269) P= .075	.0994 (270) P= .052	.0150 (270) P= .403	.0805 (270) P= .094	.1129 (270) P= .032	.0309 (270) P= .307	.1410 (269) P= .010	.0649 (236) P= .160	-0.0169 (237) P= .398	.0839 (237) P= .099	.0179 (242) P= .391
PRIMOS	-0.1158 (270) P= .029	-0.2034 (271) P= .000	-0.1550 (271) P= .005	-0.0528 (271) P= .193	-0.1838 (271) P= .001	-0.0368 (271) P= .273	-0.0946 (270) P= .060	-0.0491 (237) P= .226	.0744 (238) P= .127	-0.1673 (238) P= .005	-0.0446 (243) P= .247
UNITYPE	-0.0151 (269) P= .403	.0056 (270) P= .464	-0.1299 (270) P= .016	.0344 (270) P= .287	-0.0033 (270) P= .479	.0582 (270) P= .170	-0.0259 (269) P= .336	.0495 (236) P= .224	-0.0222 (237) P= .367	-0.0770 (237) P= .119	.0067 (242) P= .459
SITUP	-0.0575 (254) P= .181	-0.0192 (255) P= .380	-0.0703 (255) P= .132	.1097 (255) P= .040	-0.0121 (255) P= .424	.0288 (255) P= .324	-0.0475 (255) P= .225	.2037 (222) P= .001	.3863 (223) P= .000	.1829 (223) P= .003	.0816 (228) P= .111
PUSHUP	-0.0484 (254) P= .221	-0.0408 (255) P= .258	-0.1231 (255) P= .025	-0.0118 (255) P= .426	.0559 (255) P= .187	-0.0242 (255) P= .350	-0.0521 (255) P= .204	.0168 (222) P= .402	.3733 (223) P= .000	.1661 (223) P= .006	.1537 (228) P= .010
TWOMILE	-0.0079 (253) P= .451	-0.0257 (254) P= .342	.1641 (254) P= .004	-0.1585 (254) P= .006	-0.0851 (254) P= .088	-0.0387 (254) P= .270	-0.0421 (254) P= .252	-0.3086 (224) P= .000	-0.6217 (225) P= .000	-0.0991 (225) P= .069	-0.2238 (229) P= .000
PTSCORE	-0.0469 (255) P= .223	-0.0131 (256) P= .417	-0.0900 (256) P= .075	.0838 (256) P= .091	-0.0019 (256) P= .488	.0617 (256) P= .163	.0208 (256) P= .378	.1973 (227) P= .001	.4344 (227) P= .000	.0635 (227) P= .166	.2137 (232) P= .001

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MOEN	UWWPCBF	UWWLBM
TIMESER	-0.0675 (237) P= .150	.0664 (237) P= .154	-0.1323 (237) P= .021	-0.0091 (237) P= .445	-0.0815 (237) P= .106	-0.0981 (237) P= .063	-0.0504 (266) P= .207	.0857 (268) P= .084	-0.2299 (266) P= .000	.2212 (266) P= .000	-0.0683 (266) P= .189
RANK	.0751 (237) P= .125	-0.0078 (237) P= .452	-0.0065 (237) P= .460	.0342 (237) P= .300	.0775 (237) P= .117	.0045 (237) P= .473	.0946 (265) P= .062	.1673 (268) P= .003	-0.0193 (266) P= .374	.0187 (266) P= .381	.0632 (266) P= .152
CARMGMT	.0416 (236) P= .263	-0.0625 (236) P= .169	-0.0414 (236) P= .263	-0.0275 (236) P= .337	-0.0242 (236) P= .356	-0.0286 (236) P= .328	-0.0144 (264) P= .409	-0.0174 (269) P= .390	-0.0048 (265) P= .469	.0042 (265) P= .473	.0482 (265) P= .257
PRIMOS	-0.0913 (237) P= .080	-0.0800 (237) P= .110	.0040 (237) P= .476	-0.0736 (237) P= .129	.0321 (237) P= .311	.1073 (237) P= .050	.0026 (265) P= .483	-0.0186 (269) P= .383	.0237 (266) P= .350	-0.0236 (266) P= .351	-0.1278 (266) P= .019
UNITYPE	.0407 (236) P= .267	-0.0554 (236) P= .198	-0.0491 (236) P= .226	-0.0105 (236) P= .436	-0.0567 (236) P= .193	.0469 (236) P= .241	.0407 (264) P= .255	-0.0215 (269) P= .366	-0.0815 (265) P= .093	.0819 (265) P= .094	.0276 (265) P= .327
SITUP	.2116 (222) P= .001	.1763 (222) P= .004	.4063 (222) P= .000	.0436 (222) P= .259	.1959 (222) P= .002	.3144 (222) P= .000	.0843 (249) P= .092	-0.0459 (245) P= .237	.2039 (256) P= .000	-0.2573 (256) P= .000	.0583 (256) P= .179
PUSHUP	.0018 (222) P= .489	.0731 (222) P= .139	.3400 (222) P= .000	-0.0070 (222) P= .458	.1732 (222) P= .005	.2174 (222) P= .001	.0421 (249) P= .254	-0.1001 (245) P= .059	.3824 (256) P= .000	-0.3626 (256) P= .000	-0.0789 (256) P= .132
TWOMILE	-0.2746 (224) P= .000	-0.1512 (224) P= .012	-0.6011 (224) P= .000	-0.0142 (224) P= .416	-0.4102 (224) P= .000	-0.5090 (224) P= .000	-0.1318 (248) P= .019	-0.0436 (244) P= .249	-0.4215 (249) P= .000	.4226 (249) P= .000	-0.0633 (249) P= .281
PTSCORE	.1530 (227) P= .011	.1436 (227) P= .016	.4319 (227) P= .000	-0.0199 (227) P= .383	.2535 (227) P= .000	.3486 (227) P= .000	.0648 (250) P= .154	.0044 (246) P= .473	.3818 (251) P= .000	-0.3836 (251) P= .000	.0188 (251) P= .385

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
TIMESER	.1979	.1248	.1588	.1262	.1463	.1175	.0392	-0.0691	-0.1555	-0.2143	.2355
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .001	P= .020	P= .004	P= .019	P= .008	P= .027	P= .266	P= .129	P= .008	P= .001	P= .000
RANK	.0346	-0.0152	.0081	-0.0110	.0098	-0.0231	-0.0882	.0536	.0031	.0344	.0037
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .287	P= .402	P= .447	P= .429	P= .436	P= .352	P= .074	P= .190	P= .481	P= .307	P= .478
CARMGMT	.0169	.0491	.0607	.0481	.0741	.0516	.0083	-0.0973	.0393	-0.0664	.0960
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .392	P= .211	P= .160	P= .215	P= .113	P= .199	P= .054	P= .055	P= .273	P= .165	P= .079
PRIMOS	-0.0492	-0.1263	-0.1247	-0.1252	-0.1298	-0.1230	-0.1320	.1110	.0963	.0312	-0.0810
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .212	P= .019	P= .020	P= .020	P= .016	P= .022	P= .015	P= .034	P= .069	P= .324	P= .116
UNITYPE	.0836	-0.0081	.0110	-0.0141	.0020	.0109	-0.0288	-0.0565	-0.0103	-0.0360	.0377
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(218)	(216)
	P= .087	P= .447	P= .429	P= .409	P= .487	P= .429	P= .319	P= .180	P= .437	P= .298	P= .291
SITUP	-0.2553	-0.2308	-0.2307	-0.2258	-0.2180	-0.2023	-0.1793	.1612	.2566	.2968	-0.2459
	(250)	(255)	(255)	(255)	(254)	(255)	(255)	(255)	(223)	(205)	(203)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .002	P= .005	P= .000	P= .000	P= .000
PUSHUP	-0.3745	-0.2635	-0.2767	-0.2621	-0.2681	-0.2465	.0219	.0635	.1558	.1591	-0.1558
	(250)	(255)	(255)	(255)	(254)	(255)	(255)	(255)	(223)	(205)	(203)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .364	P= .156	P= .010	P= .011	P= .014
TWOMILE	.4024	.3535	.3385	.3469	.3114	.3123	.1983	-0.1772	-0.3509	-0.3229	.3369
	(249)	(254)	(254)	(254)	(253)	(254)	(254)	(254)	(223)	(205)	(203)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .002	P= .000	P= .000	P= .000
PTSCORE	-0.2987	-0.2539	-0.2139	-0.2460	-0.1966	-0.2254	-0.0614	.0730	.2722	.2955	-0.1987
	(251)	(256)	(256)	(256)	(255)	(256)	(256)	(256)	(226)	(207)	(206)
	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .164	P= .122	P= .000	P= .001	P= .003

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
HY	. (1126) P= .	. (1128) P= .	. (1112) P= .	. (1117) P= .	. (1109) P= .	. (1014) P= .	. (1014) P= .	. (1006) P= .	. (833) P= .	. (1128) P= .	. (1128) P= .
GENDER	. (1126) P= .	. (1128) P= .	. (1112) P= .	. (1117) P= .	. (1109) P= .	. (1014) P= .	. (1014) P= .	. (1006) P= .	. (833) P= .	. (1128) P= .	. (1128) P= .
RACE	-.0.1258 (1126) P= .000	-.0.1925 (1128) P= .000	.0320 (1112) P= .143	.0749 (1117) P= .006	-.0.1288 (1109) P= .000	.1278 (1014) P= .000	.1582 (1014) P= .000	-.0.0832 (1006) P= .004	.0519 (833) P= .067	. (1128) P= .	. (1128) P= .
CHINSF	.4422 (1125) P= .000	.3889 (1127) P= .000	.0175 (1111) P= .280	.0213 (1116) P= .239	.2377 (1108) P= .000	-.0.4075 (1013) P= .000	-.0.4022 (1013) P= .000	.3895 (1005) P= .000	-.0.3335 (833) P= .000	. (1127) P= .	. (1127) P= .
CHSTSF	.4384 (1125) P= .000	.3424 (1127) P= .000	.0655 (1111) P= .014	.0678 (1116) P= .012	.2739 (1108) P= .000	-.0.4125 (1013) P= .000	-.0.4087 (1013) P= .000	.4519 (1005) P= .000	-.0.3973 (833) P= .000	. (1127) P= .	. (1127) P= .
SCAPSF	.2878 (1125) P= .000	.1778 (1127) P= .000	.0673 (1111) P= .012	.0630 (1116) P= .018	.0991 (1108) P= .000	-.0.3287 (1013) P= .000	-.0.3109 (1013) P= .000	.4189 (1005) P= .000	-.0.3484 (833) P= .000	. (1127) P= .	. (1127) P= .
TRICEPSF	.1397 (1125) P= .000	.0937 (1127) P= .001	-.0.0026 (1111) P= .466	.0019 (1116) P= .475	.0442 (1108) P= .071	-.0.2598 (1013) P= .000	-.0.2777 (1013) P= .000	.3297 (1005) P= .000	-.0.3188 (833) P= .000	. (1127) P= .	. (1127) P= .
MIDAXSF	.3040 (1125) P= .000	.2354 (1127) P= .000	.0454 (1111) P= .065	.0120 (1116) P= .345	.1288 (1108) P= .000	-.0.3279 (1013) P= .000	-.0.3448 (1013) P= .000	.3975 (1005) P= .000	-.0.3434 (833) P= .000	. (1127) P= .	. (1127) P= .
WAISTSF	.2371 (1125) P= .000	.1798 (1127) P= .000	.0388 (1111) P= .099	-.0.0032 (1116) P= .458	.0798 (1108) P= .004	-.0.2923 (1013) P= .000	-.0.2954 (1013) P= .000	.3757 (1005) P= .000	-.0.3168 (833) P= .000	. (1127) P= .	. (1127) P= .
SUPRASF	.2390 (1125) P= .000	.1872 (1127) P= .000	.0348 (1111) P= .124	.0017 (1116) P= .477	.1120 (1108) P= .000	-.0.2842 (1013) P= .000	-.0.2974 (1013) P= .000	.3757 (1005) P= .000	-.0.3152 (833) P= .000	. (1127) P= .	. (1127) P= .

- - - - - - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS (MALES) - - - - - - - - - - - - - - - -

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
.HY	. (1128) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1126) P= .	. (1127) P= .
GENDER	. (1128) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1127) P= .	. (1126) P= .	. (1127) P= .
RACE	1.0000 (1128) P= .000	-0.1653 (1127) P= .000	-0.0989 (1127) P= .000	.0698 (1127) P= .010	-0.0968 (1127) P= .001	-0.0647 (1127) P= .015	-0.0559 (1127) P= .030	-0.0690 (1127) P= .010	-0.0852 (1127) P= .002	-0.1502 (1126) P= .000	.0640 (1127) P= .447
CHINSF	-0.1653 (1127) P= .000	1.0000 (1127) P= .000	.7047 (1127) P= .000	.6038 (1127) P= .000	.4208 (1127) P= .000	.6772 (1127) P= .000	.6065 (1127) P= .000	.5958 (1127) P= .000	.6358 (1127) P= .000	.4162 (1126) P= .000	.2424 (1127) P= .000
CHSTSF	-0.0989 (1127) P= .000	.7047 (1127) P= .000	1.0000 (1127) P= .000	.7542 (1127) P= .000	.5396 (1127) P= .000	.8107 (1127) P= .000	.7244 (1127) P= .000	.7138 (1127) P= .000	.7684 (1127) P= .000	.5255 (1126) P= .000	.2896 (1127) P= .000
SCAPSF	.0698 (1127) P= .010	.6038 (1127) P= .000	.7542 (1127) P= .000	1.0000 (1127) P= .000	.5922 (1127) P= .000	.8064 (1127) P= .000	.7662 (1127) P= .000	.7517 (1127) P= .000	.7431 (1127) P= .000	.5176 (1126) P= .000	.3887 (1127) P= .000
TRICEPSF	-0.0968 (1127) P= .001	.4208 (1127) P= .000	.5396 (1127) P= .000	.5922 (1127) P= .000	1.0000 (1127) P= .000	.6496 (1127) P= .000	.6524 (1127) P= .000	.6520 (1127) P= .000	.6114 (1127) P= .000	.7315 (1126) P= .000	.3374 (1127) P= .000
MIDAXSF	-0.0647 (1127) P= .015	.6772 (1127) P= .000	.8107 (1127) P= .000	.8064 (1127) P= .000	.6496 (1127) P= .000	1.0000 (1127) P= .000	.8523 (1127) P= .000	.8187 (1127) P= .000	.8058 (1127) P= .000	.5647 (1126) P= .000	.3148 (1127) P= .000
WAISTSF	-0.0559 (1127) P= .030	.6065 (1127) P= .000	.7244 (1127) P= .000	.7662 (1127) P= .000	.6524 (1127) P= .000	.8523 (1127) P= .000	1.0000 (1127) P= .000	.9431 (1127) P= .000	.8407 (1127) P= .000	.5887 (1126) P= .000	.3614 (1127) P= .000
SUPRASF	-0.0690 (1127) P= .010	.5958 (1127) P= .000	.7138 (1127) P= .000	.7517 (1127) P= .000	.6520 (1127) P= .000	.8187 (1127) P= .000	.9431 (1127) P= .000	1.0000 (1127) P= .000	.8606 (1127) P= .000	.5875 (1126) P= .000	.3840 (1127) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
HY	.	.	.	.	.	.	.	.	.	.	.
	(1126)	(1126)	(1127)	(1127)	(1126)	(1127)	(1128)	(1127)	(1125)	(1128)	(1127)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(1126)	(1126)	(1127)	(1127)	(1126)	(1127)	(1128)	(1127)	(1125)	(1128)	(1127)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	-0.1410	-0.0788	-0.0920	-0.0436	-0.1803	-0.1231	-0.1419	-0.1273	-0.0097	.0231	-0.0392
	(1126)	(1126)	(1127)	(1127)	(1126)	(1127)	(1128)	(1127)	(1125)	(1128)	(1127)
	P= .000	P= .004	P= .001	P= .072	P= .000	P= .000	P= .000	P= .000	P= .372	P= .219	P= .094
CHINSF	.3387	.5560	.2075	.3035	.5267	.6159	.6365	.4601	.2423	.2751	.1568
	(1126)	(1128)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CHSTSF	.4313	.6523	.2523	.4423	.6427	.7677	.7928	.6263	.4078	.4073	.2623
	(1126)	(1126)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SCAPSF	.4409	.6594	.2465	.4920	.5919	.7256	.7311	.6093	.4464	.5043	.3400
	(1126)	(1126)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
TRICEPSF	.6855	.6532	.2075	.3184	.3894	.5191	.5421	.5543	.3724	.4102	.2182
	(1126)	(1126)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
MIDAXSF	.5103	.6771	.2319	.4793	.6365	.7800	.7936	.6524	.3985	.4731	.2952
	(1126)	(1126)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
WAISTSF	.5172	.6456	.2390	.4759	.5741	.7366	.7577	.6394	.3938	.4486	.2865
	(1126)	(1126)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SUPRASF	.5136	.6155	.2364	.4481	.5449	.7084	.7406	.6235	.3813	.4348	.2676
	(1126)	(1126)	(1126)	(1126)	(1125)	(1126)	(1127)	(1126)	(1124)	(1127)	(1126)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
HY	.	.	.	.	.	.	.	.	.	.	.
	(1127)	(1128)	(1128)	(1125)	(1126)	(1128)	(1128)	(1124)	(1128)	(1128)	(1126)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(1127)	(1128)	(1128)	(1125)	(1126)	(1128)	(1128)	(1124)	(1128)	(1128)	(1128)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	-0.1719	-0.1181	-0.1108	-0.1152	-0.0244	.0342	-0.1149	-0.2646	-0.1571	-0.1604	-0.0857
	(1127)	(1128)	(1128)	(1125)	(1126)	(1128)	(1128)	(1124)	(1128)	(1128)	(1128)
	P= .000	P= .000	P= .000	P= .000	P= .207	P= .125	P= .000	P= .000	P= .000	P= .000	P= .002
CHINSF	.1336	.2165	.2971	.1208	.3725	.2184	.4707	.0876	.4732	.0276	.1048
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .000	P= .177	P= .000
CHSTSF	.1873	.3135	.3714	.1879	.4171	.3389	.4447	.0874	.6057	.0268	.2162
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .000	P= .185	P= .000
SCAPSF	.2042	.3236	.3993	.2019	.4400	.4262	.2805	.0079	.6012	.0078	.2532
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .395	P= .000	P= .397	P= .000
TRICEPSF	.1834	.3696	.3900	.2549	.2189	.2940	.1122	.0978	.4908	.0861	.2405
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .002	P= .000
MIDAXSF	.2001	.3629	.4232	.2677	.4100	.4014	.3179	.0815	.6421	.1228	.3180
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .000	P= .000	P= .000
WAISTSF	.2047	.3621	.4325	.2555	.3813	.3782	.2389	.0828	.6169	.1255	.3047
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .003	P= .000	P= .000	P= .000
SUPRASF	.2012	.3226	.4070	.2493	.3817	.3582	.2404	.0762	.5811	.1252	.3003
	(1126)	(1127)	(1127)	(1124)	(1125)	(1127)	(1127)	(1123)	(1127)	(1127)	(1127)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .005	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
HY	(1126) P= .	(1126) P= .	(1128) P= .	(1127) P= .	(1126) P= .	(1125) P= .	(1127) P= .	(753) P= .	(964) P= .	(962) P= .	(802) P= .
GENDER	(1126) P= .	(1126) P= .	(1128) P= .	(1127) P= .	(1126) P= .	(1125) P= .	(1127) P= .	(753) P= .	(964) P= .	(962) P= .	(802) P= .
RACE	-0.2728 (1126) P= .000	-0.2359 (1126) P= .000	-0.0353 (1128) P= .118	-0.1615 (1127) P= .000	-0.2407 (1126) P= .000	-0.2147 (1125) P= .000	-0.1724 (1127) P= .000	-0.1358 (753) P= .000	-0.0241 (964) P= .227	.1279 (962) P= .000	-0.0549 (802) P= .000
CHINSF	.2469 (1125) P= .000	.1672 (1127) P= .000	.0974 (1127) P= .001	.0349 (1126) P= .121	.2809 (1126) P= .000	.1138 (1124) P= .000	.2111 (1126) P= .000	-0.0302 (753) P= .204	-0.4688 (963) P= .000	-0.2492 (961) P= .000	-0.0854 (802) P= .008
CHSTSF	.2219 (1125) P= .000	.1499 (1127) P= .000	.2204 (1127) P= .000	.0187 (1126) P= .265	.2806 (1125) P= .000	.0848 (1124) P= .002	.1687 (1126) P= .000	.0551 (753) P= .066	-0.5408 (963) P= .000	-0.2312 (961) P= .000	-0.0699 (802) P= .024
SCAPSF	.1220 (1125) P= .000	.1139 (1127) P= .000	.2391 (1127) P= .000	.0009 (1126) P= .487	.1984 (1125) P= .000	.1012 (1124) P= .000	.1831 (1126) P= .000	.0606 (753) P= .048	-0.5651 (963) P= .000	-0.1451 (961) P= .000	-0.0107 (802) P= .381
TRICEPSF	.2542 (1125) P= .000	.2848 (1127) P= .000	.2560 (1127) P= .000	.0505 (1126) P= .045	.2546 (1125) P= .000	.1416 (1124) P= .000	.1844 (1126) P= .000	.1038 (753) P= .002	-0.4252 (963) P= .000	-0.0276 (961) P= .196	.0127 (802) P= .359
MIDAXSF	.3269 (1125) P= .000	.2894 (1127) P= .000	.2215 (1127) P= .000	.0530 (1126) P= .038	.3786 (1125) P= .000	.1305 (1124) P= .000	.2177 (1126) P= .000	.0995 (753) P= .003	-0.5422 (963) P= .000	-0.1483 (961) P= .000	.0362 (802) P= .153
WAISTSF	.2905 (1125) P= .000	.2752 (1127) P= .000	.2192 (1127) P= .000	.0629 (1126) P= .017	.3613 (1125) P= .000	.1287 (1124) P= .000	.2236 (1126) P= .000	.1445 (753) P= .000	-0.5038 (963) P= .000	-0.1190 (961) P= .000	.0873 (802) P= .007
SUPRASF	.2633 (1125) P= .000	.2581 (1127) P= .000	.2020 (1127) P= .000	.0195 (1126) P= .257	.3380 (1125) P= .000	.0967 (1124) P= .001	.2105 (1126) P= .000	.1250 (753) P= .000	-0.4883 (963) P= .000	-0.1159 (961) P= .000	.0775 (802) P= .014

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
HY	. (753) P= .	. (753) P= .	. (753) P= .	. (753) P= .	. (753) P= .	. (753) P= .	. (1123) P= .	. (1000) P= .	. (1126) P= .	. (1126) P= .	. (1126) P= .
GENDER	. (753) P= .	. (753) P= .	. (753) P= .	. (753) P= .	. (753) P= .	. (753) P= .	. (1123) P= .	. (1000) P= .	. (1126) P= .	. (1126) P= .	. (1126) P= .
RACE	-Ø.1375 (753) P= .ØØØ	-Ø.Ø463 (753) P= .1Ø2	-Ø.Ø3Ø6 (753) P= .2Ø1	-Ø.Ø383 (753) P= .147	.Ø3E3 (753) P= .167	-Ø.Ø163 (753) P= .328	-Ø.3574 (1123) P= .ØØØ	-Ø.2688 (1ØØØ) P= .ØØØ	.1344 (1126) P= .ØØØ	-Ø.1336 (1126) P= .ØØØ	-Ø.Ø984 (1126) P= .ØØØ
CHINSF	.ØØ35 (753) P= .462	-Ø.Ø349 (753) P= .17Ø	-Ø.4543 (753) P= .ØØØ	.Ø465 (753) P= .1Ø1	-Ø.3156 (753) P= .ØØØ	-Ø.3316 (753) P= .ØØØ	.Ø887 (1122) P= .ØØ1	.2Ø82 (999) P= .ØØØ	-Ø.6537 (1125) P= .ØØØ	.6555 (1125) P= .ØØØ	.Ø824 (1125) P= .ØØ3
CHSTSF	.Ø758 (753) P= .Ø19	-Ø.Ø794 (753) P= .Ø15	-Ø.5466 (753) P= .ØØØ	.Ø453 (753) P= .1Ø7	-Ø.3474 (753) P= .ØØØ	-Ø.4118 (753) P= .ØØØ	.Ø52Ø (1122) P= .Ø41	.1329 (999) P= .ØØØ	-Ø.7470 (1125) P= .ØØØ	.7497 (1125) P= .ØØØ	.1534 (1125) P= .ØØØ
SCAPSF	.Ø553 (753) P= .Ø65	-Ø.1Ø42 (753) P= .ØØ2	-Ø.5402 (753) P= .ØØØ	.ØØ57 (753) P= .438	-Ø.3322 (753) P= .ØØØ	-Ø.4129 (753) P= .ØØØ	-Ø.Ø955 (1122) P= .ØØ1	-Ø.Ø257 (999) P= .2Ø9	-Ø.6858 (1125) P= .ØØØ	.Ø881 (1125) P= .ØØØ	.1933 (1125) P= .ØØØ
TRICEPSF	.Ø653 (753) P= .Ø37	-Ø.Ø495 (753) P= .Ø87	-Ø.3881 (753) P= .ØØØ	-Ø.Ø29Ø (753) P= .213	-Ø.2650 (753) P= .ØØØ	-Ø.2999 (753) P= .ØØØ	.ØØ27 (1122) P= .464	-Ø.Ø2Ø7 (999) P= .257	-Ø.6222 (1125) P= .ØØØ	.6227 (1125) P= .ØØØ	1187 (1125) P= .ØØØ
MIDAXSF	.Ø696 (753) P= .Ø28	-Ø.Ø645 (753) P= .Ø38	-Ø.5198 (753) P= .ØØØ	-Ø.Ø1Ø7 (753) P= .385	-Ø.3234 (753) P= .ØØØ	-Ø.411[illegible] (753) P= .ØØØ	.Ø242 (1122) P= .2Ø9	.Ø453 (999) P= .Ø76	-Ø.7642 (1125) P= .ØØØ	.7658 (1125) P= .ØØØ	.1896 (1125) P= .ØØØ
WAISTSF	.Ø886 (753) P= .ØØ8	-Ø.Ø751 (753) P= .Ø2Ø	-Ø.4699 (753) P= .ØØØ	-Ø.Ø368 (753) P= .156	-Ø.2758 (753) P= .ØØØ	-Ø.3878 (753) P= .ØØØ	.Ø197 (1122) P= .254	.Ø194 (999) P= .27Ø	-Ø.7321 (1125) P= .ØØØ	.7327 (1125) P= .ØØØ	.1922 (1125) P= .ØØØ
SUPRASF	.Ø841 (753) P= .Ø11	-Ø.Ø757 (753) P= .Ø19	-Ø.4578 (753) P= .ØØØ	-Ø.Ø2Ø7 (753) P= .288	-Ø.2744 (753) P= .ØØØ	-Ø.3746 (753) P= .ØØØ	.Ø254 (1122) P= .198	.Ø238 (999) P= .226	-Ø.7291 (1125) P= .ØØØ	.7288 (1125) P= .ØØØ	.16ØØ (1125) P= .ØØØ

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
HY	. (1126) P= .	. (1127) P= .	. (1126) P= .	. (1127) P= .	. (1123) P= .	. (1124) P= .	. (1124) P= .	. (1124) P= .	. (991) P= .	. (865) P= .	. (863) P= .
GENDER	. (1126) P= .	. (1127) P= .	. (1126) P= .	. (1127) P= .	. (1123) P= .	. (1124) P= .	. (1124) P= .	. (1124) P= .	. (991) P= .	. (865) P= .	. (863) P= .
RACE	-0.1505 (1126) P= .000	-0.0423 (1127) P= .078	-0.1133 (1126) P= .000	-0.0371 (1127) P= .107	-0.1050 (1123) P= .000	-0.0589 (1124) P= .028	.1217 (1124) P= .000	-0.0560 (1124) P= .030	.0349 (991) P= .136	.0619 (865) P= .034	-0.1029 (863) P= .001
CHINSF	.6714 (1125) P= .000	.6374 (1127) P= .000	.6903 (1125) P= .000	.6330 (1127) P= .000	.6832 (1122) P= .000	.6220 (1123) P= .000	.1586 (1123) P= .000	-0.4327 (1123) P= .000	-0.3989 (990) P= .000	-0.5086 (864) P= .000	.5865 (862) P= .000
CHSTSF	.7921 (1125) P= .000	.7785 (1127) P= .000	.7758 (1125) P= .000	.7778 (1127) P= .000	.7716 (1122) P= .000	.7510 (1123) P= .000	.2784 (1123) P= .000	-0.5403 (1123) P= .000	-0.5394 (990) P= .000	-0.6556 (864) P= .000	.7334 (862) P= .000
SCAPSF	.7433 (1125) P= .000	.8865 (1127) P= .000	.7774 (1125) P= .000	.8853 (1127) P= .000	.7779 (1122) P= .000	.8582 (1123) P= .000	.3848 (1123) P= .000	-0.5918 (1123) P= .000	-0.5527 (990) P= .000	-0.6211 (864) P= .000	.7181 (862) P= .000
TRICEPSF	.6427 (1125) P= .000	.7957 (1127) P= .000	.6724 (1125) P= .000	.7929 (1127) P= .000	.6738 (1122) P= .000	.7744 (1123) P= .000	.2485 (1123) P= .000	-0.4265 (1123) P= .000	-0.4306 (990) P= .000	-0.4896 (864) P= .000	.5841 (862) P= .000
MIDAXSF	.8137 (1125) P= .000	.8734 (1127) P= .000	.8080 (1125) P= .000	.8703 (1127) P= .000	.8079 (1122) P= .000	.8525 (1123) P= .000	.3172 (1123) P= .000	-0.5892 (1123) P= .000	-0.5837 (990) P= .000	-0.6825 (864) P= .000	.7770 (862) P= .000
WAISTSF	.7753 (1125) P= .000	.9194 (1127) P= .000	.8189 (1125) P= .000	.9152 (1127) P= .000	.8205 (1122) P= .000	.9123 (1123) P= .000	.3043 (1123) P= .000	-0.5842 (1123) P= .000	-0.5485 (990) P= .000	-0.6530 (864) P= .000	.7621 (862) P= .000
SUPRASF	.7522 (1125) P= .000	.9397 (1127) P= .000	.8489 (1125) P= .000	.9365 (1127) P= .000	.8517 (1122) P= .000	.9467 (1123) P= .000	.2862 (1123) P= .000	-0.5689 (1123) P= .000	-0.5070 (990) P= .000	-0.6293 (864) P= .000	.7557 (862) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
HY	(271) P= .	(271) P= .	(270) P= .	(271) P= .	(270) P= .	(255) P= .	(255) P= .	(254) P= .	(258) P= .	(271) P= .	(271) P= .
GENDER	(271) P= .	(271) P= .	(270) P= .	(271) P= .	(270) P= .	(255) P= .	(255) P= .	(254) P= .	(258) P= .	(271) P= .	(271) P= .
RACE	.1216 (271) P= .023	-0.1100 (271) P= .035	-0.0562 (270) P= .179	-0.0028 (271) P= .482	-0.0120 (270) P= .422	.0532 (255) P= .199	.1128 (255) P= .036	-0.0947 (254) P= .068	.0603 (256) P= .168	(271) P= .	(271) P= .
CHINSF	.2211 (271) P= .000	.0180 (271) P= .384	-0.0098 (270) P= .438	.0403 (271) P= .254	-0.0392 (270) P= .261	-0.2531 (255) P= .000	-0.2259 (255) P= .000	.2525 (254) P= .000	-0.2131 (256) P= .000	(271) P= .	(271) P= .
CHSTSF	.2098 (271) P= .000	.0795 (271) P= .096	-0.0853 (270) P= .081	-0.0056 (271) P= .463	-0.0195 (270) P= .375	-0.2474 (255) P= .000	-0.1740 (255) P= .003	.2809 (254) P= .000	-0.1896 (256) P= .001	(271) P= .	(271) P= .
SCAPSF	.1516 (271) P= .006	.0264 (271) P= .332	.0176 (270) P= .387	-0.0619 (271) P= .089	-0.0140 (270) P= .409	-0.2179 (255) P= .000	-0.2460 (255) P= .000	.3155 (254) P= .000	-0.2602 (256) P= .000	(271) P= .	(271) P= .
TRICEPSF	.0880 (271) P= .074	-0.0454 (271) P= .228	.0512 (270) P= .201	-0.1080 (271) P= .038	.0481 (270) P= .215	-0.2203 (255) P= .000	-0.2647 (255) P= .000	.3735 (254) P= .000	-0.2397 (256) P= .000	(271) P= .	(271) P= .
MIDAXSF	.1505 (270) P= .007	.0389 (270) P= .262	-0.0798 (269) P= .097	-0.0362 (270) P= .139	-0.0498 (269) P= .208	-0.1882 (254) P= .001	-0.1463 (254) P= .010	.2368 (253) P= .000	-0.1789 (255) P= .002	(270) P= .	(270) P= .
WAISTSF	.0356 (271) P= .280	-0.0568 (271) P= .178	.0596 (270) P= .165	-0.1294 (271) P= .017	-0.0105 (270) P= .432	-0.1563 (255) P= .006	-0.1958 (255) P= .001	.2148 (254) P= .000	-0.1833 (256) P= .002	(271) P= .	(271) P= .
SUPRASF	.0703 (271) P= .124	-0.0353 (271) P= .281	.0461 (270) P= .225	-0.1195 (271) P= .025	-0.0153 (270) P= .401	-0.1437 (255) P= .011	-0.1680 (255) P= .004	.1982 (254) P= .001	-0.1560 (256) P= .006	(271) P= .	(271) P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	A3DSF	THISF	KNEESF
HY	.	.	.	.	.	.	.	.	.	.	.
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	1.0000	-0.1499	-0.0051	.0783	-0.0384	.0262	-0.0114	-0.0037	-0.0681	-0.0856	.0629
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .007	P= .467	P= .099	P= .264	P= .334	P= .426	P= .476	P= .132	P= .080	P= .151
CHINSF	-0.1499	1.0000	.4825	.5715	.5633	.5956	.6064	.5478	.5513	.4537	.2573
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .007	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CHSTSF	-0.0051	.4825	1.0000	.4799	.4060	.6352	.3871	.3344	.3892	.2478	.1244
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .467	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .020
SCAPSF	.0783	.5715	.4799	1.0000	.6061	.7326	.6829	.6258	.5843	.4676	.2631
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .099	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
TRICEPSF	-0.0384	.5633	.4060	.6061	1.0000	.6463	.6804	.5945	.6388	.7081	.3622
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .264	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
MIDAXSF	.0262	.5956	.6352	.7326	.6463	1.0000	.7201	.6385	.6118	.5105	.2268
	(270)	(270)	(270)	(270)	(270)	(270)	(270)	(270)	(270)	(270)	(270)
	P= .334	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
WAISTSF	-0.0114	.6064	.3871	.6829	.6804	.7201	1.0000	.9268	.7763	.5867	.3280
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .426	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SUPRASF	-0.0037	.5478	.3344	.6258	.5945	.6385	.9268	1.0000	.8343	.5800	.3809
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .476	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
HY	.	.	.	.	.	.	.	.	.	.	.
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	-0.1040	-0.1100	.1419	-0.0041	-0.0874	-0.0316	-0.0668	-0.0935	.0045	.0697	-0.0020
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .044	P= .035	P= .010	P= .473	P= .076	P= .302	P= .137	P= .063	P= .471	P= .126	P= .487
CHINSF	.4362	.6248	-0.1378	.3234	.5369	.4936	.5322	.4201	.2567	.4600	.2432
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .012	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CHSTSF	.2977	.4849	-0.0771	.2711	.4497	.4877	.4544	.3854	.2892	.3622	.2062
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .103	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SCAPSF	.5011	.5553	.0182	.4239	.5299	.5847	.6315	.5580	.4269	.5577	.3269
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .383	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
TRICEPSF	.6593	.6521	-0.0284	.3599	.4930	.4938	.5416	.6180	.4884	.7221	.3263
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .321	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
MIDAXSF	.5468	.6100	-0.0497	.3206	.4255	.5357	.5762	.5053	.3658	.5315	.2677
	(270)	(270)	(269)	(269)	(270)	(269)	(269)	(269)	(270)	(270)	(270)
	P= .000	P= .000	P= .208	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
WAISTSF	.5597	.6190	-0.0781	.3695	.4562	.4778	.5858	.4959	.3179	.5503	.2701
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .100	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SUPRASF	.5138	.5730	-0.0817	.3495	.4160	.4324	.5457	.4527	.2624	.4927	.2104
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .090	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
HY	. (271) P= .	. (271) P= .	. (271) P= .	. (271) P= .	. (270) P= .	. (268) P= .	. (271) P= .	. (271) P= .	. (271) P= .	. (271) P= .	. (271) P= .
GENDER	. (271) P= .	. (271) P= .	. (271) P= .	. (271) P= .	. (270) P= .	. (268) P= .	. (271) P= .	. (271) P= .	. (271) P= .	. (271) P= .	. (271) P= .
RACE	.0331 (271) P= .294	-0.0405 (271) P= .253	-0.0616 (271) P= .156	-0.1535 (271) P= .006	.0585 (270) P= .169	.1275 (268) P= .018	-0.0590 (271) P= .166	-0.1820 (271) P= .001	-0.0792 (271) P= .097	.0130 (271) P= .416	.0331 (271) P= .294
CHINSF	.0109 (271) P= .429	.2706 (271) P= .000	.3139 (271) P= .000	.2633 (271) P= .000	.2686 (270) P= .000	.3984 (268) P= .000	.1810 (271) P= .001	-0.0414 (271) P= .249	.4139 (271) P= .000	.0709 (271) P= .122	.2955 (271) P= .000
CHSTSF	-0.0549 (271) P= .184	.1702 (271) P= .002	.2108 (271) P= .000	.0331 (271) P= .294	.2649 (270) P= .000	.3247 (268) P= .000	.2222 (271) P= .000	-0.0995 (271) P= .051	.3315 (271) P= .000	-0.1480 (271) P= .007	.0454 (271) P= .228
SCAPSF	-0.0138 (271) P= .410	.3421 (271) P= .000	.3699 (271) P= .000	.1838 (271) P= .001	.2986 (270) P= .000	.4921 (268) P= .000	.1471 (271) P= .008	-0.0878 (271) P= .075	.5403 (271) P= .000	.1248 (271) P= .020	.3554 (271) P= .000
TRICEPSF	.0233 (271) P= .351	.4605 (271) P= .000	.5107 (271) P= .000	.3273 (271) P= .000	.1885 (270) P= .001	.5942 (268) P= .000	.0812 (271) P= .091	-0.0239 (271) P= .348	.5722 (271) P= .000	.1885 (271) P= .001	.3853 (271) P= .000
MIDAXSF	-0.0207 (270) P= .368	.3252 (270) P= .000	.3386 (270) P= .000	.2021 (270) P= .000	.2368 (269) P= .000	.4719 (267) P= .000	.0685 (270) P= .131	-0.1146 (270) P= .030	.4573 (270) P= .000	.1457 (270) P= .008	.4010 (270) P= .000
WAISTSF	.0276 (271) P= .328	.3156 (271) P= .000	.3465 (271) P= .000	.2728 (271) P= .000	.2048 (270) P= .000	.4838 (268) P= .000	.0141 (271) P= .409	-0.0953 (271) P= .059	.4567 (271) P= .000	.3392 (271) P= .000	.5174 (271) P= .000
SUPRASF	.0382 (271) P= .265	.2516 (271) P= .000	.2999 (271) P= .000	.2523 (271) P= .000	.1895 (270) P= .001	.4321 (268) P= .000	.0081 (271) P= .447	-0.0696 (271) P= .127	.4188 (271) P= .000	.3359 (271) P= .000	.4630 (271) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	IILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
HY	.	.	.	.	.	.	.	.	.	.	.
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	-Ø.Ø941	-Ø.Ø847	.Ø287	-Ø.Ø667	-Ø.ØØ25	-Ø.Ø14Ø	.ØØ87	-Ø.1589	-Ø.Ø612	.Ø27Ø	-Ø.Ø368
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .Ø61	P= .Ø82	P= .319	P= .137	P= .484	P= .4Ø9	P= .443	P= .ØØ7	P= .174	P= .339	P= .284
CHINSF	.2752	.2668	.2381	-Ø.Ø514	.2176	.Ø139	.Ø699	.1784	-Ø.2648	-Ø.1359	.Ø356
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .ØØØ	P= .ØØØ	P= .ØØØ	P= .199	P= .ØØØ	P= .41Ø	P= .126	P= .ØØ3	P= .ØØØ	P= .Ø18	P= .291
CHSTSF	-Ø.Ø1ØØ	-Ø.ØØ4Ø	.1119	-Ø.1159	-Ø.Ø39Ø	-Ø.ØØ1Ø	-Ø.ØØ12	-Ø.Ø254	-Ø.4Ø68	-Ø.Ø847	-Ø.Ø2Ø9
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .435	P= .474	P= .Ø33	P= .Ø28	P= .261	P= .493	P= .492	P= .349	P= .ØØØ	P= .Ø97	P= .373
SCAPSF	.2594	.3Ø93	.3262	-Ø.Ø581	.2462	.Ø641	.Ø625	.Ø822	-Ø.5183	-Ø.1Ø45	.Ø168
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .ØØØ	P= .ØØØ	P= .ØØØ	P= .171	P= .ØØØ	P= .146	P= .153	P= .1Ø4	P= .ØØØ	P= .Ø54	P= .398
TRICEPSF	.3324	.3970	.4139	-Ø.ØØ35	.3227	.1221	.1227	.1219	-Ø.5Ø62	-Ø.Ø215	-Ø.Ø134
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .ØØØ	P= .ØØØ	P= .ØØØ	P= .477	P= .ØØØ	P= .Ø22	P= .Ø22	P= .Ø31	P= .ØØØ	P= .371	P= .418
MIDAXSF	.3729	.3995	.3108	-Ø.Ø675	.3234	.Ø738	.Ø753	.Ø882	-Ø.4161	-Ø.Ø345	.Ø414
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(236)	(237)	(237)	(242)
	P= .ØØØ	P= .ØØØ	P= .ØØØ	P= .134	P= .ØØØ	P= .114	P= .1Ø9	P= .Ø88	P= .ØØØ	P= .298	P= .261
WAISTSF	.4999	.5148	.2928	.Ø212	.4900	.Ø772	.1459	.1728	-Ø.3267	-Ø.Ø497	.Ø794
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .ØØØ	P= .ØØØ	P= .ØØØ	P= .364	P= .ØØØ	P= .1Ø2	P= .ØØ8	P= .ØØ4	P= .ØØØ	P= .223	P= .1Ø9
SUPRASF	.4399	.4691	.2382	.Ø1Ø2	.4491	.Ø789	.1563	.1577	-Ø.3Ø22	-Ø.Ø92Ø	.Ø799
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .ØØØ	P= .ØØØ	P= .ØØØ	P= .434	P= .ØØØ	P= .Ø98	P= .ØØ5	P= .ØØ8	P= .ØØØ	P= .Ø79	P= .1Ø7

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
HY	.	.	.	.	.	.	.	.	.	.	.
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	-0.1259	-0.0105	-0.0509	-0.0170	-0.0140	.0008	-0.2717	-0.2307	.0606	-0.0604	-0.0518
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .026	P= .436	P= .218	P= .397	P= .415	P= .495	P= .000	P= .000	P= .162	P= .163	P= .200
CHINSF	.0064	.0403	-0.1888	-0.1756	-0.0842	-0.2129	.1427	-0.0190	-0.5536	.5572	.0431
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .461	P= .269	P= .002	P= .003	P= .098	P= .000	P= .010	P= .380	P= .000	P= .000	P= .242
CHSTSF	-0.0068	.0300	-0.3106	.0157	-0.1879	-0.2405	-0.0038	-0.0883	-0.4726	.4754	.0101
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .459	P= .323	P= .000	P= .405	P= .002	P= .000	P= .476	P= .078	P= .000	P= .000	P= .435
SCAPSF	-0.0042	.0146	-0.4228	-0.1045	-0.2597	-0.3862	-0.0606	-0.1251	-0.6485	.6522	.1205
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .474	P= .412	P= .000	P= .054	P= .000	P= .000	P= .163	P= .022	P= .000	P= .000	P= .025
TRICEPSF	.0148	.0247	-0.4182	-0.1203	-0.2302	-0.4208	-0.0266	-0.1394	-0.6838	.6858	.1510
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .411	P= .352	P= .000	P= .032	P= .000	P= .000	P= .333	P= .012	P= .000	P= .000	P= .007
MIDAXSF	-0.0158	.0436	-0.3221	-0.1158	-0.2117	-0.3141	-0.0798	-0.1902	-0.5957	.5991	.0891
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .405	P= .252	P= .000	P= .038	P= .001	P= .000	P= .099	P= .001	P= .000	P= .000	P= .131
WAISTSF	.0242	-0.0132	-0.2780	-0.1609	-0.1863	-0.3027	-0.0509	-0.1974	-0.5836	.5871	.0811
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .356	P= .420	P= .000	P= .007	P= .002	P= .000	P= .204	P= .001	P= .000	P= .000	P= .094
SUPRASF	-0.0130	-0.0564	-0.2837	-0.1945	-0.2096	-0.2787	-0.0777	-0.1993	-0.5411	.5440	.0628
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .421	P= .194	P= .000	P= .001	P= .001	P= .000	P= .104	P= .001	P= .000	P= .000	P= .154

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
HY	.	.	.	.	.	.	.	.	.	.	.
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
GENDER	.	.	.	.	.	.	.	.	.	.	.
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .	P= .
RACE	-0.0737	-0.0122	-0.0368	-0.0100	-0.0318	.0086	.1498	-0.1025	-0.0386	.0250	-0.0351
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .115	P= .421	P= .273	P= .435	P= .302	P= .444	P= .007	P= .046	P= .276	P= .357	P= .304
CHINSF	.5681	.6747	.6760	.6681	.6643	.6404	.3126	-0.4148	-0.2974	-0.4657	.5099
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CHSTSF	.4800	.4846	.4846	.4834	.4750	.4681	.2635	-0.3649	-0.3367	-0.4581	.4584
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SCAPSF	.6909	.8239	.7954	.8217	.7901	.8147	.4416	-0.5932	-0.4777	-0.5618	.6366
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
TRICEPSF	.7244	.8405	.8234	.8353	.8133	.8231	.5124	-0.5612	-0.4581	-0.5720	.6400
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
MIDAXSF	.6199	.7788	.7503	.7780	.7423	.7543	.4212	-0.5192	-0.4623	-0.5508	.6226
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
WAISTSF	.8037	.8972	.8596	.8960	.8546	.8824	.4011	-0.5120	-0.4237	-0.5811	.5891
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SUPRASF	.5580	.8854	.8581	.8854	.8546	.8891	.3287	-0.4485	-0.3932	-0.5373	.5200
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
ABDSF	.3909	.3131	.0446	.0206	.1966	-0.3764	-0.3789	.4544	-0.3696	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1013)	(1013)	(1005)	(833)	(1127)	(1127)
	P= .000	P= .000	P= .069	P= .246	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
THISF	.1705	.1603	-0.0013	-0.0054	.0767	-0.2316	-0.2950	.3271	-0.2976	.	.
	(1124)	(1126)	(1110)	(1115)	(1107)	(1013)	(1013)	(1005)	(832)	(1126)	(1126)
	P= .000	P= .000	P= .482	P= .428	P= .005	P= .000	P= .000	P= .000	P= .000	P= .	P= .
KNEESF	-0.0476	-0.0734	.0069	-0.0118	-0.0446	-0.0335	-0.0157	.1319	-0.0840	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1013)	(1013)	(1005)	(833)	(1127)	(1127)
	P= .055	P= .007	P= .410	P= .347	P= .069	P= .144	P= .308	P= .000	P= .008	P= .	P= .
CALFSF	-0.0088	-0.0136	-0.0095	-0.0014	-0.0174	-0.1800	-0.1646	.2502	-0.2353	.	.
	(1124)	(1126)	(1110)	(1115)	(1107)	(1012)	(1012)	(1004)	(832)	(1126)	(1126)
	P= .384	P= .325	P= .375	P= .482	P= .282	P= .000	P= .000	P= .000	P= .000	P= .	P= .
BICEPSF	.2169	.1500	.0466	.0242	.0616	-0.3186	-0.3127	.3670	-0.3101	.	.
	(1124)	(1126)	(1110)	(1115)	(1107)	(1012)	(1012)	(1004)	(832)	(1126)	(1126)
	P= .000	P= .000	P= .061	P= .209	P= .020	P= .000	P= .000	P= .000	P= .000	P= .	P= .
HEADC	.2224	.2149	.0084	.0309	.1810	-0.1921	-0.1343	.1369	-0.0982	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1013)	(1013)	(1005)	(832)	(1127)	(1127)
	P= .000	P= .000	P= .390	P= .151	P= .000	P= .000	P= .000	P= .000	P= .002	P= .	P= .
SHOULC	.1197	.0808	.0280	.0288	.0504	-0.1293	-0.0338	.2007	-0.1115	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1013)	(1013)	(1005)	(832)	(1127)	(1127)
	P= .000	P= .003	P= .175	P= .168	P= .047	P= .000	P= .141	P= .000	P= .001	P= .	P= .
CHSTC	.2223	.2413	.0400	.0317	.1440	-0.2921	-0.2113	.3239	-0.2430	.	.
	(1124)	(1126)	(1110)	(1115)	(1107)	(1012)	(1012)	(1004)	(831)	(1126)	(1126)
	P= .000	P= .000	P= .092	P= .145	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
ABD1C	.4015	.2963	.0526	.0534	.1821	-0.3770	-0.3395	.4350	-0.3377	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1013)	(1013)	(1005)	(833)	(1127)	(1127)
	P= .000	P= .000	P= .040	P= .037	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
ABD2C	.4116	.3190	.0597	.0528	.2173	-0.3877	-0.3666	.4515	-0.3639	.	.
	(1128)	(1128)	(1112)	(1117)	(1109)	(1014)	(1014)	(1006)	(833)	(1128)	(1128)
	P= .000	P= .000	P= .023	P= .039	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
ABDSF	-0.0852 (1127) P= .002	.6358 (1127) P= .000	.7684 (1127) P= .000	.7431 (1127) P= .000	.6114 (1127) P= .000	.8058 (1127) P= .000	.8407 (1127) P= .000	.8606 (1127) P= .000	1.0000 (1127) P= .000	.5878 (1126) P= .000	.3606 (1127) P= .000
THISF	-0.1502 (1126) P= .000	.4162 (1126) P= .000	.5255 (1126) P= .000	.5176 (1126) P= .000	.7315 (1126) P= .000	.5647 (1126) P= .000	.5887 (1126) P= .000	.5875 (1126) P= .000	.5876 (1126) P= .000	1.0000 (1126) P= .000	.3310 (1126) P= .000
KNEESF	.0040 (1127) P= .447	.2424 (1127) P= .000	.2896 (1127) P= .000	.3887 (1127) P= .000	.3374 (1127) P= .000	.3148 (1127) P= .000	.3614 (1127) P= .000	.3840 (1127) P= .000	.3606 (1127) P= .000	.3310 (1126) P= .000	1.0000 (1127) P= .000
CALFSF	-0.1410 (1126) P= .000	.3367 (1126) P= .000	.4313 (1126) P= .000	.4409 (1126) P= .000	.6855 (1126) P= .000	.5103 (1126) P= .000	.5172 (1126) P= .000	.5136 (1126) P= .000	.4968 (1126) P= .000	.7221 (1125) P= .000	.3507 (1126) P= .000
BICEPSF	-0.0788 (1126) P= .004	.5560 (1126) P= .000	.6523 (1126) P= .000	.6594 (1126) P= .000	.6532 (1126) P= .000	.6771 (1126) P= .000	.6456 (1126) P= .000	.6157 (1126) P= .000	.6105 (1126) P= .000	.6054 (1125) P= .000	.4075 (1126) P= .000
HEADC	-0.0920 (1127) P= .001	.2075 (1126) P= .000	.2523 (1126) P= .000	.2465 (1126) P= .000	.2075 (1126) P= .000	.2319 (1126) P= .000	.2390 (1126) P= .000	.2364 (1126) P= .000	.2676 (1126) P= .000	.1610 (1125) P= .000	.1209 (1126) P= .000
SHOULC	-0.0436 (1127) P= .072	.3035 (1126) P= .000	.4423 (1126) P= .000	.4920 (1126) P= .000	.3184 (1126) P= .000	.4793 (1126) P= .000	.4759 (1126) P= .000	.4461 (1126) P= .000	.4826 (1126) P= .000	.2600 (1125) P= .000	.2921 (1126) P= .000
CHSTC	-0.1803 1126) P= .000	.5267 (1125) P= .000	.6427 (1125) P= .000	.5919 (1125) P= .000	.3894 (1125) P= .000	.6365 (1125) P= .000	.5741 (1125) P= .000	.5449 (1125) P= .000	.6357 (1125) P= .000	.3736 (1124) P= .000	.2819 (1125) P= .000
ABD1C	-0.1231 (1127) P= .000	.6159 (1126) P= .000	.7677 (1126) P= .000	.7256 (1126) P= .000	.5191 (1126) P= .000	.7800 (1126) P= .000	.7366 (1126) P= .000	.7084 (1126) P= .000	.7749 (1126) P= .000	.4856 (1125) P= .000	.3123 (1126) P= .000
ABD2C	-0.1419 (1128) P= .000	.6365 (1127) P= .000	.7928 (1127) P= .000	.7311 (1127) P= .000	.5421 (1127) P= .000	.7936 (1127) P= .000	.7577 (1127) P= .000	.7406 (1127) P= .000	.8049 (1127) P= .000	.5236 (1126) P= .000	.3692 (1127) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
ABDSF	.4968 (1126) P= .000	.6105 (1126) P= .000	.2676 (1126) P= .000	.4826 (1126) P= .000	.6357 (1125) P= .000	.7749 (1126) P= .000	.8049 (1127) P= .000	.6533 (1126) P= .000	.4548 (1124) P= .000	.4568 (1127) P= .000	.2846 (1126) P= .000
THISF	.7221 (1125) P= .000	.6054 (1125) P= .000	.1610 (1125) P= .000	.2600 (1125) P= .000	.3736 (1124) P= .000	.4856 (1125) P= .000	.5236 (1126) P= .000	.5190 (1125) P= .000	.4033 (1123) P= .000	.3473 (1126) P= .000	.1586 (1125) P= .000
KNEESF	.3507 (1126) P= .000	.4075 (1126) P= .000	.1209 (1126) P= .000	.2921 (1126) P= .000	.2819 (1125) P= .000	.3123 (1126) P= .000	.3092 (1127) P= .000	.3504 (1126) P= .000	.2982 (1124) P= .000	.2963 (1127) P= .000	.2427 (1126) P= .000
CALFSF	1.0000 (1126) P= .000	.5513 (1125) P= .000	.1651 (1125) P= .000	.2896 (1125) P= .000	.3576 (1124) P= .000	.4413 (1125) P= .000	.4616 (1126) P= .000	.5063 (1125) P= .000	.3831 (1123) P= .000	.3587 (1126) P= .000	.2145 (1125) P= .000
BICEPSF	.5513 (1125) P= .000	1.0000 (1126) P= .000	.1928 (1125) P= .000	.3963 (1125) P= .000	.5016 (1124) P= .000	.6084 (1125) P= .000	.6235 (1126) P= .000	.5879 (1125) P= .000	.3898 (1123) P= .000	.4330 (1126) P= .000	.2778 (1125) P= .000
HEADC	.1651 (1125) P= .000	.1928 (1125) P= .000	1.0000 (1127) P= .000	.4165 (1126) P= .000	.3939 (1125) P= .000	.3953 (1126) P= .000	.3915 (1127) P= .000	.4102 (1126) P= .000	.3467 (1124) P= .000	.3441 (1127) P= .000	.3441 (1126) P= .000
SHOULC	.2896 (1125) P= .000	.3963 (1125) P= .000	.4165 (1126) P= .000	1.0000 (1127) P= .000	.7538 (1125) P= .000	.7066 (1126) P= .000	.6749 (1127) P= .000	.7077 (1126) P= .000	.6248 (1124) P= .000	.7076 (1127) P= .000	.6403 (1126) P= .000
CHSTC	.3576 (1124) P= .000	.5016 (1124) P= .000	.3939 (1125) P= .000	.7538 (1125) P= .000	1.0000 (1126) P= .000	.8579 (1125) P= .000	.8300 (1126) P= .000	.7629 (1125) P= .000	.6223 (1123) P= .000	.6382 (1126) P= .000	.5486 (1125) P= .000
ABD1C	.4413 (1125) P= .000	.6084 (1125) P= .000	.3953 (1126) P= .000	.7066 (1126) P= .000	.8579 (1125) P= .000	1.0000 (1127) P= .000	.9614 (1127) P= .000	.8179 (1126) P= .000	.6039 (1124) P= .000	.6347 (1127) P= .000	.5161 (1126) P= .000
ABD2C	.4616 (1126) P= .000	.6235 (1126) P= .000	.3915 (1127) P= .000	.6749 (1127) P= .000	.8300 (1126) P= .000	.9614 (1127) P= .000	1.0000 (1128) P= .000	.8322 (1127) P= .000	.5975 (1125) P= .000	.6111 (1128) P= .000	.4879 (1127) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
ABDSF	.1990 (1126) P= .000	.3489 (1127) P= .000	.4163 (1127) P= .000	.2121 (1124) P= .000	.4045 (1125) P= .000	.3880 (1127) P= .000	.4026 (1127) P= .000	.0588 (1123) P= .024	.6217 (1127) P= .000	.0522 (1127) P= .040	.2523 (1127) P= .000
THISF	.1421 (1125) P= .000	.3197 (1126) P= .000	.3715 (1126) P= .000	.2371 (1123) P= .000	.1875 (1124) P= .000	.2383 (1126) P= .000	.1549 (1126) P= .000	.0840 (1122) P= .002	.4513 (1126) P= .000	-0.0013 (1126) P= .482	.1476 (1126) P= .000
KNEESF	.2230 (1126) P= .000	.2235 (1127) P= .000	.2767 (1127) P= .000	.2053 (1124) P= .000	.2473 (1125) P= .000	.2409 (1127) P= .000	-0.0555 (1127) P= .031	.0064 (1123) P= .415	.3225 (1127) P= .000	-0.0297 (1127) P= .159	.1061 (1127) P= .000
CALFSF	.1740 (1125) P= .000	.3624 (1126) P= .000	.3564 (1126) P= .000	.3087 (1123) P= .000	.1800 (1124) P= .000	.2691 (1126) P= .000	-0.0392 (1126) P= .094	.0857 (1122) P= .002	.4276 (1126) P= .000	-0.0053 (1126) P= .429	.2063 (1126) P= .000
BICEPSF	.2014 (1125) P= .000	.3322 (1126) P= .000	.3786 (1126) P= .000	.2069 (1123) P= .000	.3240 (1124) P= .000	.3480 (1126) P= .000	.2039 (1126) P= .000	.0937 (1122) P= .001	.5449 (1126) P= .000	.0272 (1126) P= .181	.2064 (1126) P= .000
HEADC	.3596 (1126) P= .000	.2995 (1127) P= .000	.3378 (1127) P= .000	.3016 (1124) P= .000	.3989 (1125) P= .000	.3165 (1127) P= .000	.2151 (1127) P= .000	.3515 (1123) P= .000	.4987 (1127) P= .000	.1856 (1127) P= .000	.2844 (1127) P= .000
SHOULC	.5359 (1126) P= .000	.4905 (1127) P= .000	.6118 (1127) P= .000	.4428 (1124) P= .000	.6414 (1125) P= .000	.7110 (1127) P= .000	.1232 (1127) P= .000	.3569 (1123) P= .000	.8098 (1127) P= .000	.2927 (1127) P= .000	.5939 (1127) P= .000
CHSTC	.4403 (1125) P= .000	.4834 (1126) P= .000	.6143 (1126) P= .000	.4148 (1123) P= .000	.6253 (1124) P= .000	.6101 (1126) P= .000	.3227 (1126) P= .000	.2792 (1122) P= .000	.8297 (1126) P= .000	.1243 (1126) P= .000	.4266 (1126) P= .000
ABD1C	.3999 (1126) P= .000	.4830 (1127) P= .000	.5993 (1127) P= .000	.3671 (1124) P= .000	.6316 (1125) P= .000	.5958 (1127) P= .000	.4070 (1127) P= .000	.2452 (1123) P= .000	.8668 (1127) P= .000	.1062 (1127) P= .000	.3866 (1127) P= .000
ABD2C	.3974 (1127) P= .000	.4838 (1128) P= .000	.5958 (1128) P= .000	.3862 (1125) P= .000	.6133 (1126) P= .000	.5841 (1128) P= .000	.4178 (1128) P= .000	.2720 (1124) P= .000	.8585 (1128) P= .000	.1036 (1128) P= .000	.3827 (1128) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	ILIACD	TROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
ABDSF	.2303 (1125) P= .000	.1861 (1127) P= .000	.2265 (1127) P= .000	.0220 (1126) P= .230	.3100 (1125) P= .000	.1326 (1124) P= .000	.2001 (1126) P= .000	.0711 (753) P= .026	-0.5711 (963) P= .000	-0.1710 (961) P= .000	.0308 (802) P= .192
THISF	.2187 (1124) P= .000	.2251 (1126) P= .000	.2683 (1126) P= .000	.0624 (1125) P= .018	.1922 (1124) P= .000	.0965 (1123) P= .001	.1648 (1125) P= .000	.0688 (752) P= .030	-0.3950 (962) P= .000	-0.0630 (960) P= .005	-0.0360 (801) P= .154
KNEESF	-0.0212 (1125) P= .239	.0073 (1127) P= .404	.1947 (1127) P= .000	.0576 (1126) P= .027	.0547 (1125) P= .033	.1088 (1124) P= .000	.1233 (1126) P= .000	.1577 (753) P= .000	-0.1873 (963) P= .000	-0.0084 (961) P= .397	.0708 (802) P= .022
CALFSF	.2019 (1124) P= .000	.2144 (1126) P= .000	.3006 (1126) P= .000	.0769 (1125) P= .005	.2009 (1124) P= .000	.1198 (1123) P= .000	.1235 (1125) P= .000	.1364 (753) P= .000	-0.3430 (963) P= .000	.0463 (961) P= .076	.0371 (801) P= .147
BICEPSF	.1946 (1124) P= .000	.1929 (1126) P= .000	.2312 (1126) P= .000	.0441 (1125) P= .070	.2477 (1124) P= .000	.1157 (1123) P= .000	.1748 (1125) P= .000	.0945 (752) P= .005	-0.4695 (962) P= .000	-0.1468 (960) P= .000	-0.0202 (801) P= .284
HEADC	.2054 (1125) P= .000	.1729 (1127) P= .000	.2490 (1127) P= .000	.2298 (1126) P= .000	.2700 (1125) P= .000	.2507 (1124) P= .000	.2701 (1126) P= .000	.3444 (752) P= .000	-0.1736 (963) P= .000	-0.1951 (961) P= .000	.2375 (801) P= .000
SHOULC	.2057 (1125) P= .000	.1940 (1127) P= .000	.4331 (1127) P= .000	.3033 (1126) P= .000	.4054 (1125) P= .000	.3472 (1124) P= .000	.4239 (1126) P= .000	.5108 (752) P= .000	-0.3307 (963) P= .000	-0.1166 (961) P= .000	.4796 (801) P= .000
CHSTC	.2604 (1124) P= .000	.2055 (1126) P= .000	.4076 (1126) P= .000	.2484 (1125) P= .000	.4538 (1124) P= .000	.3135 (1123) P= .000	.3518 (1125) P= .000	.4277 (751) P= .000	-0.4126 (962) P= .000	-0.2024 (960) P= .000	.3152 (800) P= .000
ABD1C	.2935 (1125) P= .000	.2139 (1127) P= .000	.3741 (1127) P= .000	.1975 (1126) P= .000	.4045 (1125) P= .000	.2639 (1124) P= .000	.3138 (1126) P= .000	.3187 (752) P= .000	-0.5616 (963) P= .000	-0.2487 (961) P= .000	.1978 (801) P= .000
ABD2C	.3234 (1126) P= .000	.2420 (1128) P= .000	.3707 (1128) P= .000	.1840 (1127) P= .000	.3967 (1126) P= .000	.2657 (1125) P= .000	.3214 (1127) P= .000	.2997 (753) P= .000	-0.5665 (964) P= .000	-0.2596 (962) P= .000	.1626 (802) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	WDEN	UWWPCBF	UWWLBM
ABDSF	.0458 (753) P= .105	-0.1133 (753) P= .001	-0.5702 (753) P= .000	-0.0078 (753) P= .415	-0.3673 (753) P= .000	-0.4335 (753) P= .000	.0555 (1122) P= .032	.1064 (999) P= .001	-0.7970 (1125) P= .000	.7958 (1125) P= .000	.1674 (1125) P= .000
THISF	.0499 (752) P= .086	-0.0408 (752) P= .132	-0.3831 (752) P= .000	-0.0024 (752) P= .474	-0.2534 (752) P= .000	-0.2979 (752) P= .000	.0514 (1121) P= .043	.0380 (998) P= .115	-0.6326 (1124) P= .000	.6331 (1124) P= .000	.0755 (1124) P= .000
KNEESF	.0597 (753) P= .051	-0.0411 (753) P= .130	-0.2197 (753) P= .000	-0.0957 (753) P= .004	-0.1562 (753) P= .000	-0.1201 (753) P= .000	-0.0153 (1122) P= .305	-0.0962 (999) P= .002	-0.2623 (1125) P= .000	.2629 (1125) P= .000	.1966 (1125) P= .000
CALFSF	.1055 (753) P= .002	-0.0557 (753) P= .063	-0.3346 (753) P= .000	.0000 (753) P= .500	-0.2418 (753) P= .000	-0.2390 (753) P= .000	.0454 (1121) P= .064	-0.0572 (998) P= .036	-0.5382 (1124) P= .000	.5388 (1124) P= .000	.1136 (1124) P= .000
BICEPSF	.0464 (752) P= .102	-0.0836 (752) P= .011	-0.4357 (752) P= .000	-0.0370 (752) P= .156	-0.2852 (752) P= .000	-0.3230 (752) P= .000	-0.0408 (1121) P= .086	.0181 (999) P= .284	-0.6643 (1124) P= .000	.6671 (1124) P= .000	.1836 (1124) P= .000
HEADC	.2529 (752) P= .000	.0032 (752) P= .465	-0.1660 (752) P= .000	-0.0449 (752) P= .109	-0.0786 (752) P= .016	-0.1645 (752) P= .000	.1945 (1122) P= .000	.1985 (999) P= .000	-0.1961 (1125) P= .000	.1961 (1125) P= .000	.4585 (1125) P= .000
SHOULC	.3412 (752) P= .000	-0.0767 (752) P= .018	-0.3512 (752) P= .000	-0.1070 (752) P= .002	-0.1773 (752) P= .000	-0.2739 (752) P= .000	.2766 (1122) P= .000	.1124 (999) P= .000	-0.3634 (1125) P= .000	.3651 (1125) P= .000	.6969 (1125) P= .000
CHSTC	.3347 (751) P= .000	-0.0456 (751) P= .109	-0.4175 (751) P= .000	-0.0242 (751) P= .254	-0.2613 (751) P= .000	-0.3373 (751) P= .000	.3696 (1121) P= .000	.1986 (998) P= .000	-0.6061 (1124) P= .000	.6021 (1124) P= .000	.5466 (1124) P= .000
ABD1C	.2458 (752) P= .000	-0.0845 (752) P= .010	-0.5455 (752) P= .000	-0.0162 (752) P= .329	-0.3439 (752) P= .000	-0.4203 (752) P= .000	.2105 (1122) P= .000	.1743 (999) P= .000	-0.7485 (1125) P= .000	.7423 (1125) P= .000	.4741 (1125) P= .000
ABD2C	.2283 (753) P= .000	-0.0695 (753) P= .028	-0.5536 (753) P= .000	-0.0203 (753) P= .289	-0.3372 (753) P= .000	-0.4351 (753) P= .000	.2327 (1123) P= .000	.1935 (1000) P= .000	-0.7869 (1126) P= .000	.7882 (1126) P= .000	.4539 (1126) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
ABDSF	.8101 (1125) P= .000	.8587 (1127) P= .000	.8630 (1125) P= .000	.8558 (1127) P= .000	.8628 (1122) P= .000	.8743 (1123) P= .000	.3347 (1123) P= .000	-0.6482 (1123) P= .000	-0.5086 (990) P= .000	-0.6448 (864) P= .000	.8036 (862) P= .000
THISF	.6352 (1124) P= .000	.6779 (1126) P= .000	.5989 (1124) P= .000	.6739 (1126) P= .000	.5967 (1121) P= .000	.6630 (1122) P= .000	.2289 (1122) P= .000	-0.4052 (1122) P= .000	-0.4090 (989) P= .000	-0.4971 (863) P= .000	.5814 (861) P= .000
KNEESF	.3116 (1125) P= .000	.4308 (1127) P= .000	.3087 (1125) P= .000	.4295 (1127) P= .000	.3042 (1122) P= .000	.4104 (1123) P= .000	.2720 (1123) P= .000	-0.3352 (1123) P= .000	-0.2931 (990) P= .000	-0.2627 (864) P= .000	.3213 (862) P= .000
CALFSF	.5591 (1124) P= .000	.6014 (1126) P= .000	.4663 (1124) P= .000	.5974 (1126) P= .000	.4684 (1121) P= .000	.5911 (1122) P= .000	.2388 (1122) P= .000	-0.3860 (1122) P= .000	-0.3877 (989) P= .000	-0.4115 (863) P= .000	.5015 (861) P= .000
BICEPSF	.6649 (1124) P= .000	.7659 (1126) P= .000	.6535 (1124) P= .000	.7647 (1126) P= .000	.6534 (1121) P= .000	.6852 (1122) P= .000	.2707 (1122) P= .000	-0.4526 (1122) P= .000	-0.4847 (989) P= .000	-0.5117 (863) P= .000	.5662 (861) P= .000
HEADC	.3228 (1125) P= .000	.2603 (1126) P= .000	.2971 (1125) P= .000	.2572 (1126) P= .000	.2911 (1122) P= .000	.2654 (1123) P= .000	.1466 (1123) P= .000	-0.2264 (1123) P= .000	-0.1116 (990) P= .000	-0.1595 (864) P= .000	.2402 (862) P= .000
SHOULC	.5631 (1125) P= .000	.4880 (1126) P= .000	.4106 (1125) P= .000	.4881 (1126) P= .000	.4121 (1122) P= .000	.4666 (1123) P= .000	.4699 (1123) P= .000	-0.5403 (1123) P= .000	-0.3912 (990) P= .000	-0.3131 (864) P= .000	.4597 (862) P= .000
CHSTC	.7552 (1124) P= .000	.5954 (1125) P= .000	.5792 (1124) P= .000	.5945 (1125) P= .000	.5774 (1121) P= .000	.5760 (1122) P= .000	.4633 (1122) P= .000	-0.6221 (1122) P= .000	-0.5403 (989) P= .000	-0.5014 (863) P= .000	.6602 (861) P= .000
ABD1C	.8705 (1125) P= .000	.7581 (1126) P= .000	.7428 (1125) P= .000	.7570 (1126) P= .000	.7419 (1122) P= .000	.7416 (1123) P= .000	.4389 (1123) P= .000	-0.6834 (1123) P= .000	-0.6204 (990) P= .000	-0.6646 (864) P= .000	.8116 (862) P= .000
ABD2C	.8882 (1126) P= .000	.7825 (1127) P= .000	.7710 (1126) P= .000	.7816 (1127) P= .000	.7696 (1123) P= .000	.7674 (1124) P= .000	.4047 (1124) P= .000	-0.6575 (1124) P= .000	-0.6160 (991) P= .000	-0.6912 (865) P= .000	.8269 (863) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
ABDSF	.1252 (271) P= .020	.0466 (271) P= .223	.0747 (270) P= .110	-0.0894 (271) P= .071	-0.0122 (270) P= .421	-0.1748 (255) P= .003	-0.2126 (255) P= .000	.2719 (254) P= .000	-0.1525 (256) P= .007	. (271) P= .	. (271) P= .
THISF	.0540 (271) P= .188	-0.0513 (271) P= .200	.0912 (270) P= .067	-0.1455 (271) P= .008	-0.0213 (270) P= .364	-0.1524 (255) P= .007	-0.2287 (255) P= .000	.2570 (254) P= .000	-0.2060 (256) P= .000	. (271) P= .	. (271) P= .
KNEESF	.0436 (271) P= .238	.0160 (271) P= .397	-0.0105 (270) P= .432	-0.0723 (271) P= .118	-0.0769 (270) P= .104	-0.1993 (255) P= .001	-0.0909 (255) P= .074	.1301 (254) P= .019	-0.1411 (256) P= .012	. (271) P= .	. (271) P= .
CALFSF	.0283 (271) P= .321	-0.0278 (271) P= .324	.0306 (270) P= .308	-0.1760 (271) P= .002	-0.0732 (270) P= .115	-0.1617 (255) P= .005	-0.2393 (255) P= .000	.3024 (254) P= .000	-0.2707 (256) P= .000	. (271) P= .	. (271) P= .
BICEPSF	.1482 (271) P= .007	.0368 (271) P= .273	.0494 (270) P= .209	-0.1098 (271) P= .036	-0.0666 (270) P= .138	-0.2484 (255) P= .000	-0.2549 (255) P= .000	.3923 (254) P= .000	-0.2511 (256) P= .000	. (271) P= .	. (271) P= .
HEADC	-0.0090 (270) P= .441	.0734 (270) P= .115	.0551 (269) P= .184	-0.0944 (270) P= .061	.0194 (269) P= .376	-0.1080 (254) P= .043	-0.1312 (254) P= .018	-0.1104 (253) P= .040	-0.0980 (255) P= .059	. (270) P= .	. (270) P= .
SHOULC	.0318 (270) P= .302	.0092 (270) P= .440	.1035 (269) P= .045	-0.0527 (270) P= .194	.0753 (269) P= .109	-0.1138 (254) P= .035	-0.0889 (254) P= .079	.0673 (254) P= .143	-0.0520 (256) P= .203	. (270) P= .	. (270) P= .
CHSTC	.1400 (270) P= .011	-0.0085 (270) P= .445	.0300 (269) P= .312	-0.1114 (270) P= .034	.0395 (269) P= .259	-0.2084 (254) P= .000	-0.1949 (254) P= .001	.2158 (253) P= .000	-0.1423 (255) P= .012	. (270) P= .	. (270) P= .
ABD1C	.1194 (270) P= .025	.0590 (270) P= .167	-0.0002 (269) P= .499	-0.1317 (270) P= .015	.0400 (269) P= .257	-0.1897 (254) P= .001	-0.2626 (254) P= .000	.2502 (253) P= .000	-0.1825 (255) P= .002	. (270) P= .	. (270) P= .
ABD2C	.2106 (270) P= .000	.0755 (270) P= .108	.0317 (269) P= .302	-0.1162 (270) P= .028	.0345 (269) P= .287	-0.2124 (254) P= .000	-0.2601 (254) P= .000	.2008 (253) P= .001	-0.1852 (255) P= .001	. (270) P= .	. (270) P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
ABDSF	-0.0681 (271) P= .132	.5513 (271) P= .000	.3892 (271) P= .000	.5843 (271) P= .000	.6388 (271) P= .000	.6118 (270) P= .000	.7763 (271) P= .000	.8343 (271) P= .000	1.0000 (271) P= .000	.5758 (271) P= .000	.3657 (271) P= .000
THISF	-0.0856 (271) P= .080	.4537 (271) P= .000	.2478 (271) P= .000	.4678 (271) P= .000	.7081 (271) P= .000	.5105 (270) P= .000	.5867 (271) P= .000	.5800 (271) P= .000	.5758 (271) P= .000	1.0000 (271) P= .000	.3593 (271) P= .000
KNEESF	.0629 (271) P= .151	.2573 (271) P= .000	.1244 (271) P= .020	.2631 (271) P= .000	.3622 (271) P= .000	.2268 (270) P= .000	.3280 (271) P= .000	.3809 (271) P= .000	.3657 (271) P= .000	.3593 (271) P= .000	1.0000 (271) P= .000
CALFSF	-0.1040 (271) P= .044	.4362 (271) P= .000	.2977 (271) P= .000	.5011 (271) P= .000	.6593 (271) P= .000	.5468 (270) P= .000	.5597 (271) P= .000	.5138 (271) P= .000	.5039 (271) P= .000	.6725 (271) P= .000	.3598 (271) P= .000
BICEPSF	-0.1100 (271) P= .035	.6248 (271) P= .000	.4849 (271) P= .000	.5553 (271) P= .000	.6521 (271) P= .000	.6100 (270) P= .000	.6190 (271) P= .000	.5730 (271) P= .000	.6085 (271) P= .000	.5468 (271) P= .000	.2853 (271) P= .000
HEADC	.1419 (270) P= .010	-0.1378 (270) P= .012	-0.0771 (270) P= .103	.0182 (270) P= .383	-0.0284 (270) P= .321	-0.0497 (269) P= .208	-0.0781 (270) P= .100	-0.0817 (270) P= .090	-0.1390 (270) P= .011	-0.0761 (270) P= .106	.0010 (270) P= .494
SHOULC	-0.0041 (270) P= .473	.3234 (270) P= .000	.2711 (270) P= .000	.4239 (270) P= .000	.3599 (270) P= .000	.3206 (269) P= .000	.3695 (270) P= .000	.3495 (270) P= .000	.3928 (270) P= .000	.2278 (270) P= .000	.0734 (270) P= .115
CHSTC	-0.0874 (270) P= .076	.5369 (270) P= .000	.4497 (270) P= .000	.5299 (270) P= .000	.4930 (270) P= .000	.4255 (270) P= .000	.4562 (270) P= .000	.4160 (270) P= .000	.4559 (270) P= .000	.3475 (270) P= .000	.1851 (270) P= .001
ABD1C	-0.0316 (270) P= .302	.4936 (270) P= .000	.4877 (270) P= .000	.5847 (270) P= .000	.4938 (270) P= .000	.5357 (269) P= .000	.4778 (270) P= .000	.4324 (270) P= .000	.4616 (270) P= .000	.3436 (270) P= .000	.1746 (270) P= .002
ABD2C	-0.0668 (270) P= .137	.5322 (270) P= .000	.4544 (270) P= .000	.6315 (270) P= .000	.5416 (270) P= .000	.5782 (269) P= .000	.5858 (270) P= .000	.5457 (270) P= .000	.5473 (270) P= .000	.4057 (270) P= .000	.1681 (270) P= .003

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
ABDSF	.5039 (271) P= .000	.6085 (271) P= .000	-0.1390 (270) P= .011	.3928 (270) P= .000	.4559 (270) P= .000	.4616 (270) P= .000	.5473 (270) P= .000	.4912 (270) P= .000	.3048 (271) P= .000	.5248 (271) P= .000	.2314 (271) P= .000
THISF	.6725 (271) P= .000	.5468 (271) P= .000	-0.0761 (270) P= .106	.2278 (270) P= .000	.3475 (270) P= .000	.3426 (270) P= .000	.4057 (270) P= .000	.5367 (270) P= .000	.4433 (271) P= .000	.5323 (271) P= .000	.2335 (271) P= .000
KNEESF	.3598 (271) P= .000	.2853 (271) P= .000	.0010 (270) P= .494	.0734 (270) P= .115	.1851 (270) P= .001	.1740 (270) P= .002	.1681 (270) P= .003	.2149 (270) P= .000	.1473 (271) P= .008	.2793 (271) P= .000	.2456 (271) P= .000
CALFSF	1.0000 (271) P= .000	.4999 (271) P= .000	-0.0408 (270) P= .252	.2402 (270) P= .000	.3886 (270) P= .000	.4323 (270) P= .000	.4898 (270) P= .000	.5181 (270) P= .000	.4371 (271) P= .000	.5187 (271) P= .000	.3165 (271) P= .000
BICEPSF	.4999 (271) P= .000	1.0000 (271) P= .000	-0.0540 (270) P= .188	.3521 (270) P= .000	.5055 (270) P= .000	.4742 (270) P= .000	.4984 (270) P= .000	.4670 (270) P= .000	.3110 (271) P= .000	.5616 (271) P= .000	.3053 (271) P= .000
HEADC	-0.0408 (270) P= .252	-0.0540 (270) P= .188	1.0000 (270) P= .000	.1630 (269) P= .004	.0403 (269) P= .255	.0696 (269) P= .128	.1122 (269) P= .033	.0973 (269) P= .056	.0944 (270) P= .061	.0771 (270) P= .103	.1305 (270) P= .016
SHOULC	.2402 (270) P= .000	.3521 (270) P= .000	.1630 (269) P= .004	1.0000 (270) P= .000	.6962 (269) P= .000	.6375 (269) P= .000	.6404 (269) P= .000	.6057 (269) P= .000	.4166 (270) P= .000	.6649 (270) P= .000	.6071 (270) P= .000
CHSTC	.3886 (270) P= .000	.5055 (270) P= .000	.0403 (269) P= .255	.6962 (269) P= .000	1.0000 (270) P= .000	.7483 (269) P= .000	.7113 (269) P= .000	.6489 (269) P= .000	.4504 (270) P= .000	.6540 (270) P= .000	.5128 (270) P= .000
ABD1C	.4323 (270) P= .000	.4742 (270) P= .000	.0696 (269) P= .128	.6375 (269) P= .000	.7483 (269) P= .000	1.0000 (270) P= .000	.8577 (270) P= .000	.6796 (269) P= .000	.5056 (270) P= .000	.6774 (270) P= .000	.5436 (270) P= .000
ABD2C	.4898 (270) P= .000	.4984 (270) P= .000	.1122 (269) P= .033	.6404 (269) P= .000	.7113 (269) P= .000	.8577 (270) P= .000	1.0000 (270) P= .000	.7025 (269) P= .000	.4577 (270) P= .000	.6502 (270) P= .000	.4873 (270) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
ABDSF	.0001	.2424	.3252	.2067	.1813	.4459	.1104	-0.0470	.4568	.1770	.3108
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .500	P= .000	P= .000	P= .000	P= .001	P= .000	P= .035	P= .221	P= .000	P= .002	P= .000
THISF	.0102	.3824	.4090	.3694	.1053	.4162	.0281	-0.0360	.4442	.1688	.3365
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .434	P= .000	P= .000	P= .000	P= .042	P= .000	P= .322	P= .278	P= .000	P= .003	P= .000
KNEESF	-0.0260	.2273	.2989	.2307	.1310	.3014	.0530	-0.1180	.2020	.0107	.0752
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .335	P= .000	P= .000	P= .000	P= .016	P= .000	P= .193	P= .026	P= .000	P= .431	P= .108
CALFSF	.0703	.4843	.4756	.4196	.1367	.4237	.0179	.0555	.5147	.1728	.3498
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .124	P= .000	P= .000	P= .000	P= .012	P= .000	P= .385	P= .182	P= .000	P= .002	P= .000
BICEPSF	-0.0049	.3348	.3711	.2263	.2874	.5052	.1715	-0.0407	.4509	.0450	.2585
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .468	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .252	P= .000	P= .230	P= .000
HEADC	.2095	.1730	.1066	.0954	.1863	.1143	-0.0300	.2449	.2224	.1994	.1532
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .000	P= .002	P= .040	P= .059	P= .001	P= .031	P= .312	P= .000	P= .000	P= .000	P= .006
SHOULC	.2317	.3741	.4281	.3759	.4769	.6575	.1155	.2865	.7278	.3911	.5728
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .029	P= .000	P= .000	P= .000	P= .000
CHSTC	.1814	.4238	.4445	.3703	.4453	.6278	.2675	.1854	.7194	.1718	.3822
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .004	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .002	P= .000
ABD1C	.1026	.4331	.4982	.3570	.4926	.6319	.2238	.1513	.7517	.1473	.3857
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .046	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .006	P= .000	P= .008	P= .000
ABD2C	.1340	.4542	.4892	.3980	.4123	.5733	.2029	.1848	.7667	.2935	.4982
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .014	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	ILIACD	TROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
ABDSF	.3147	.3211	.2431	-0.0451	.2730	.0520	.1376	.1514	-0.3627	-0.1116	.0722
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .230	P= .000	P= .197	P= .012	P= .010	P= .000	P= .043	P= .131
THISF	.3448	.4110	.3329	-0.0047	.3166	-0.0042	.0925	.1586	-0.3306	-0.0122	-0.0218
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .470	P= .000	P= .473	P= .065	P= .007	P= .000	P= .426	P= .367
KNEESF	.0548	.0771	.2137	-0.0471	.0825	.1500	.0780	.0405	-0.1842	-0.0475	-0.0099
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .185	P= .103	P= .000	P= .220	P= .088	P= .007	P= .101	P= .268	P= .002	P= .233	P= .439
CALFSF	.3405	.4278	.4152	.0847	.3338	.0472	.1677	.2019	-0.3739	-0.0044	.0071
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .082	P= .000	P= .220	P= .003	P= .001	P= .000	P= .473	P= .456
BICEPSF	.2363	.2054	.2514	-0.0610	.1700	.0163	.0759	.0888	-0.4338	-0.0870	-0.0719
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .159	P= .003	P= .395	P= .107	P= .086	P= .000	P= .090	P= .132
HEADC	.0674	.1128	.1429	.1853	.1273	.1055	.1830	.0989	-0.1419	-0.0571	.0514
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(236)	(237)	(237)	(242)
	P= .135	P= .032	P= .009	P= .001	P= .018	P= .042	P= .001	P= .065	P= .014	P= .191	P= .213
SHOULC	.2475	.2953	.3639	.2779	.3412	.2873	.3626	.5388	-0.2395	-0.0559	.3453
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .195	P= .000
CHSTC	.2174	.2542	.3671	.2222	.3046	.2076	.2913	.4495	-0.3653	-0.1407	.2074
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(236)	(237)	(237)	(242)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .015	P= .001
ABD1C	.2547	.2784	.3833	.1905	.2682	.2218	.1704	.3797	-0.4208	-0.1364	.1098
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(236)	(237)	(237)	(242)
	P= .000	P= .000	P= .000	P= .001	P= .000	P= .000	P= .003	P= .000	P= .000	P= .018	P= .044
ABD2C	.4312	.4711	.3793	.2397	.4125	.1802	.2699	.4085	-0.4180	-0.1047	.1416
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(236)	(237)	(237)	(242)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .000	P= .000	P= .054	P= .014

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
ABDSF	.0300	-0.0338	-0.3248	-0.1302	-0.2443	-0.2938	-0.0076	-0.1440	-0.5792	.5801	.0852
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .323	P= .304	P= .000	P= .023	P= .000	P= .000	P= .451	P= .010	P= .000	P= .000	P= .083
THISF	-0.0414	-0.0439	-0.3075	-0.2036	-0.1977	-0.3106	.0270	-0.0424	-0.5987	.5984	.0719
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .263	P= .250	P= .000	P= .001	P= .001	P= .000	P= .331	P= .248	P= .000	P= .000	P= .121
KNEESF	-0.0363	-0.0293	-0.1715	-0.0960	-0.1462	-0.1828	-0.0035	-0.1246	-0.2595	.2617	.0383
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .289	P= .327	P= .004	P= .070	P= .012	P= .002	P= .477	P= .022	P= .000	P= .000	P= .267
CALFSF	.0385	-0.0492	-0.3395	-0.1614	-0.2063	-0.3450	.0828	-0.1042	-0.5711	.5727	.1827
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .278	P= .226	P= .000	P= .006	P= .001	P= .000	P= .089	P= .047	P= .000	P= .000	P= .001
BICEPSF	.0748	-0.0329	-0.3663	-0.0109	-0.2220	-0.3527	.0170	-0.0552	-0.5803	.5832	.0800
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .126	P= .307	P= .000	P= .434	P= .000	P= .000	P= .392	P= .188	P= .000	P= .000	P= .097
HEADC	.1926	-0.0021	-0.1225	.1349	-0.0369	-0.0098	.0009	.0581	.0395	-0.0369	.2800
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .001	P= .487	P= .030	P= .019	P= .286	P= .441	P= .494	P= .176	P= .261	P= .275	P= .000
SHOULC	.3773	-0.0080	-0.2010	-0.1208	-0.0953	-0.1398	.3583	.0806	-0.3485	.3523	.5914
	(237)	(237)	(237)	(237)	(237)	(237)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .464	P= .001	P= .032	P= .072	P= .016	P= .000	P= .098	P= .000	P= .000	P= .000
CHSTC	.2479	-0.0228	-0.3078	-0.1599	-0.1041	-0.2984	.3515	.1149	-0.5025	.5077	.4427
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .365	P= .000	P= .007	P= .055	P= .000	P= .000	P= .032	P= .000	P= .000	P= .000
ABD1C	.2928	-0.0731	-0.3834	-0.0458	-0.1542	-0.3436	.2299	.0367	-0.5375	.5427	.4514
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .132	P= .000	P= .242	P= .009	P= .000	P= .000	P= .278	P= .000	P= .000	P= .000
ABD2C	.2921	-0.0241	-0.3572	-0.0713	-0.1577	-0.3097	.2309	.0387	-0.5669	.5713	.4498
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .357	P= .000	P= .138	P= .008	P= .000	P= .000	P= .268	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
ABDSF	.5933	.8221	.8337	.8217	.8302	.8334	.3302	-0.4835	-0.3662	-0.5007	.5281
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
THISF	.6017	.6900	.6982	.6907	.6910	.6914	.3601	-0.4708	-0.3331	-0.4549	.5475
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
KNEESF	.2787	.3969	.3802	.3978	.3831	.3871	.3461	-0.2498	-0.1534	-0.2338	.2434
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .009	P= .000	P= .000
CALFSF	.6192	.6471	.6202	.6446	.6060	.6222	.3498	-0.4398	-0.3671	-0.4635	.5818
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
BICEPSF	.6006	.7763	.7537	.7747	.7460	.6709	.3690	-0.4431	-0.3766	-0.4760	.5286
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
HEADC	.0807	-0.0489	-0.0974	-0.0492	-0.0849	-0.0702	-0.0052	.0066	-0.0422	.0465	-0.1047
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .095	P= .212	P= .055	P= .210	P= .082	P= .125	P= .466	P= .457	P= .258	P= .248	P= .063
SHOULC	.5526	.4386	.4261	.4398	.4624	.4313	.3664	-0.4949	-0.3207	-0.3753	.4608
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CHSTC	.6668	.5628	.5519	.5632	.5656	.5293	.3970	-0.5202	-0.4176	-0.4983	.5724
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ABD1C	.7096	.5795	.5479	.5771	.5544	.5450	.4628	-0.5770	-0.5082	-0.5563	.6148
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ABD2C	.7352	.6600	.6323	.6600	.6333	.6437	.3978	-0.5727	-0.5168	-0.5819	.6251
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITY'E	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
HIPC	.2121 (1125) P= .000	.1378 (1127) P= .000	.0343 (1111) P= .127	.0491 (1116) P= .050	.1123 (1108) P= .000	-0.2572 (1013) P= .000	-0.2635 (1013) P= .000	.3424 (1005) P= .000	-0.3122 (832) P= .000	. (1127) P= .	. (1127) P= .
THIC	.1459 (1123) P= .000	.0948 (1125) P= .001	.0102 (1109) P= .367	.0536 (1114) P= .037	.0721 (1106) P= .008	-0.1035 (1011) P= .000	-0.0908 (1011) P= .002	.2299 (1003) P= .000	-0.1593 (830) P= .000	. (1125) P= .	. (1125) P= .
BICEPC	.1161 (1126) P= .000	.0677 (1128) P= .011	.0136 (1112) P= .326	.0043 (1117) P= .443	.0113 (1109) P= .085	-0.0757 (1014) P= .008	-0.0132 (1014) P= .337	.2073 (1006) P= .000	-0.1057 (833) P= .001	. (1128) P= .	. (1128) P= .
FOREC	.0295 (1125) P= .162	-0.0184 (1127) P= .269	.0047 (1111) P= .438	.0002 (1116) P= .497	-0.0253 (1108) P= .200	-0.0449 (1013) P= .077	.0305 (1013) P= .166	.1340 (1005) P= .000	-0.0438 (832) P= .103	. (1127) P= .	. (1127) P= .
WRISTC	.0760 (1125) P= .005	.0352 (1127) P= .119	.0173 (1111) P= .282	-0.0024 (1116) P= .469	.0413 (1108) P= .085	-0.1034 (1013) P= .000	-0.0451 (1013) P= .078	.1392 (1005) P= .000	-0.0991 (832) P= .002	. (1127) P= .	. (1127) P= .
KNEEC	.1154 (1126) P= .000	.0964 (1128) P= .001	-0.0233 (1112) P= .219	-0.0305 (1117) P= .154	.0775 (1109) P= .005	-0.1046 (1014) P= .000	-0.1076 (1014) P= .000	.1673 (1006) P= .000	-0.1147 (833) P= .000	. (1128) P= .	. (1128) P= .
CALFC	.1255 (1126) P= .000	.1016 (1128) P= .000	.0073 (1112) P= .404	-0.0175 (1117) P= .280	.0237 (1109) P= .215	-0.1569 (1014) P= .000	-0.1247 (1014) P= .000	.2287 (1006) P= .000	-0.1815 (833) P= .000	. (1128) P= .	. (1128) P= .
ANKLEC	-0.0239 (1123) P= .212	.0062 (1125) P= .418	.0102 (1109) P= .367	-0.0705 (1114) P= .009	.0189 (1106) P= .265	-0.0491 (1012) P= .059	-0.0279 (1012) P= .187	.0683 (1004) P= .015	-0.0650 (832) P= .030	. (1125) P= .	. (1125) P= .
NECKC	.2021 (1124) P= .000	.1437 (1126) P= .000	.0545 (1110) P= .035	.0673 (1115) P= .012	.0989 (1107) P= .000	-0.1822 (1012) P= .000	-0.0983 (1012) P= .001	.2139 (1004) P= .000	-0.1683 (831) P= .000	. (1126) P= .	. (1126) P= .
FLXBICC	.1000 (1126) P= .000	.0531 (1128) P= .037	.0138 (1112) P= .323	.0312 (1117) P= .149	.0392 (1109) P= .096	-0.0618 (1014) P= .025	.0241 (1014) P= .222	.1587 (1006) P= .000	-0.0611 (833) P= .039	. (1128) P= .	. (1128) P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
HIPC	-0.1273 (1127) P= .000	.4601 (1126) P= .000	.6263 (1126) P= .000	.6093 (1126) P= .000	.5543 (1126) P= .000	.6524 (1126) P= .000	.6394 (1126) P= .000	.6235 (1126) P= .000	.6533 (1126) P= .000	.5190 (1125) P= .000	.3504 (1126) P= .000
THIC	-0.0097 (1125) P= .372	.2423 (1124) P= .000	.4078 (1124) P= .000	.4464 (1124) P= .000	.3724 (1124) P= .000	.3985 (1124) P= .000	.3938 (1124) P= .000	.3813 (1124) P= .000	.4540 (1124) P= .000	.4033 (1123) P= .000	.2982 (1124) P= .000
BICEPC	.0231 (1128) P= .219	.2751 (1127) P= .000	.4073 (1127) P= .000	.5043 (1127) P= .000	.4102 (1127) P= .000	.4731 (1127) P= .000	.4400 (1127) P= .000	.4348 (1127) P= .000	.4568 (1127) P= .000	.3473 (1126) P= .000	.2963 (1127) P= .000
FOREC	-0.0392 (1127) P= .094	.1568 (1126) P= .000	.2623 (1126) P= .000	.3400 (1126) P= .000	.2182 (1126) P= .000	.2952 (1126) P= .000	.2865 (1126) P= .000	.2676 (1126) P= .000	.2846 (1126) P= .000	.1508 (1125) P= .000	.2427 (1126) P= .000
WRISTC	-0.1719 (1127) P= .000	.1336 (1126) P= .000	.1873 (1126) P= .000	.2042 (1126) P= .000	.1834 (1126) P= .000	.2001 (1126) P= .000	.2047 (1126) P= .000	.2012 (1126) P= .000	.1990 (1126) P= .000	.1421 (1125) P= .000	.2230 (1126) P= .000
KNEEC	-0.1181 (1128) P= .000	.2165 (1127) P= .000	.3135 (1127) P= .000	.3236 (1127) P= .000	.3696 (1127) P= .000	.3629 (1127) P= .000	.3621 (1127) P= .000	.3226 (1127) P= .000	.3489 (1127) P= .000	.3197 (1126) P= .000	.2235 (1127) P= .000
CALFC	-0.1108 (1128) P= .000	.2971 (1127) P= .000	.3714 (1127) P= .000	.3993 (1127) P= .000	.3900 (1127) P= .000	.4232 (1127) P= .000	.4325 (1127) P= .000	.4070 (1127) P= .000	.4163 (1127) P= .000	.3716 (1126) P= .000	.2767 (1127) P= .000
ANKLEC	-0.1152 (1125) P= .000	.1206 (1124) P= .000	.1879 (1124) P= .000	.2019 (1124) P= .000	.2549 (1124) P= .000	.2677 (1124) P= .000	.2555 (1124) P= .000	.2493 (1124) P= .000	.2121 (1124) P= .000	.2371 (1123) P= .000	.2053 (1124) P= .000
NECKC	-0.0244 (1126) P= .207	.3725 (1125) P= .000	.4171 (1125) P= .000	.4400 (1125) P= .000	.2169 (1125) P= .000	.4100 (1125) P= .000	.3813 (1125) P= .000	.3817 (1125) P= .000	.4045 (1125) P= .000	.1875 (1124) P= .000	.2473 (1125) P= .000
FLXBICC	.0342 (1128) P= .125	.2184 (1127) P= .000	.3389 (1127) P= .000	.4262 (1127) P= .000	.2940 (1127) P= .000	.4014 (1127) P= .000	.3782 (1127) P= .000	.3582 (1127) P= .000	.3880 (1127) P= .000	.2383 (1126) P= .000	.2401 (1127) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	HIC	BICEPC	FOREC
HIPC	.5063 (1125) P= .000	.5679 (1125) P= .000	.4102 (1126) P= .000	.7077 (1126) P= .000	.7629 (1125) P= .000	.8179 (1126) P= .000	.8322 (1127) P= .000	1.0000 (1127) P= .000	.6978 (1124) P= .000	.6516 (1127) P= .000	.5522 (1126) P= .000
THIC	.3831 (1123) P= .000	.3898 (1123) P= .000	.3467 (1124) P= .000	.6248 (1124) P= .000	.6223 (1123) P= .000	.6039 (1124) P= .000	.5975 (1125) P= .000	.6978 (1124) P= .000	1.0000 (1125) P= .000	.6654 (1125) P= .000	.5407 (1124) P= .000
BICEPC	.3587 (1126) P= .000	.4330 (1126) P= .000	.3441 (1127) P= .000	.7076 (1127) P= .000	.6302 (1126) P= .000	.6347 (1127) P= .000	.6111 (1128) P= .000	.6516 (1127) P= .000	.6654 (1125) P= .000	1.0000 (1128) P= .000	.7375 (1127) P= .000
FOREC	.2145 (1125) P= .000	.2778 (1125) P= .000	.3441 (1126) P= .000	.6403 (1126) P= .000	.5480 (1125) P= .000	.5161 (1126) P= .000	.4879 (1127) P= .000	.5522 (1126) P= .000	.5407 (1124) P= .000	.7375 (1127) P= .000	1.0000 (1127) P= .000
WRISTC	.1740 (1125) P= .000	.2014 (1125) P= .000	.3596 (1126) P= .000	.5359 (1126) P= .000	.4403 (1125) P= .000	.3999 (1126) P= .000	.3974 (1127) P= .000	.4705 (1126) P= .000	.3668 (1124) P= .000	.4679 (1127) P= .000	.5604 (1126) P= .000
KNEEC	.3624 (1126) P= .000	.3322 (1126) P= .000	.2995 (1127) P= .000	.4905 (1127) P= .000	.4834 (1126) P= .000	.4830 (1127) P= .000	.4838 (1128) P= .000	.5557 (1127) P= .000	.4877 (1125) P= .000	.4884 (1128) P= .000	.4558 (1127) P= .000
CALFC	.3564 (1126) P= .000	.3766 (1126) P= .000	.3378 (1127) P= .000	.6118 (1127) P= .000	.6143 (1126) P= .000	.5993 (1127) P= .000	.5958 (1128) P= .000	.6863 (1127) P= .000	.6147 (1125) P= .000	.5902 (1128) P= .000	.5789 (1127) P= .000
ANKLEC	.3087 (1123) P= .000	.2069 (1123) P= .000	.3016 (1124) P= .000	.4428 (1124) P= .000	.4148 (1123) P= .000	.3671 (1124) P= .000	.3862 (1125) P= .000	.5013 (1124) P= .000	.4083 (1122) P= .000	.4011 (1125) P= .000	.4264 (1124) P= .000
NECKC	.1800 (1124) P= .000	.3240 (1124) P= .000	.3989 (1125) P= .000	.6414 (1125) P= .000	.6253 (1124) P= .000	.6310 (1125) P= .000	.6133 (1126) P= .000	.5798 (1125) P= .000	.5502 (1123) P= .000	.6059 (1126) P= .000	.5700 (1125) P= .000
FLXBICC	.2691 (1126) P= .000	.3480 (1126) P= .000	.3165 (1127) P= .000	.7110 (1127) P= .000	.6101 (1126) P= .000	.5956 (1127) P= .000	.5641 (1128) P= .000	.6051 (1127) P= .000	.6487 (1125) P= .000	.8961 (1128) P= .000	.7328 (1127) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
HIPC	.4705 (1126) P= .000	.5557 (1127) P= .000	.6863 (1127) P= .000	.5013 (1124) P= .000	.5796 (1125) P= .000	.6051 (1127) P= .000	.1900 (1127) P= .000	.3705 (1123) P= .000	.8889 (1127) P= .000	.1445 (1127) P= .000	.4469 (1127) P= .000
THIC	.3668 (1124) P= .000	.4877 (1125) P= .000	.6147 (1125) P= .000	.4083 (1122) P= .000	.5502 (1123) P= .000	.6487 (1125) P= .000	.1098 (1125) P= .000	.1967 (1121) P= .000	.7088 (1125) P= .000	-0.1135 (1125) P= .000	.2421 (1125) P= .000
BICEPC	.4679 (1127) P= .000	.4884 (1128) P= .000	.5902 (1128) P= .000	.4611 (1125) P= .000	.6059 (1126) P= .000	.8961 (1128) P= .000	.0992 (1128) P= .000	.1877 (1124) P= .000	.7326 (1128) P= .000	.0995 (1128) P= .000	.4092 (1128) P= .000
FOREC	.5604 (1126) P= .000	.4558 (1127) P= .000	.5789 (1127) P= .000	.4264 (1124) P= .000	.5700 (1125) P= .000	.7328 (1127) P= .000	.0247 (1127) P= .204	.2936 (1123) P= .000	.6637 (1127) P= .000	.1493 (1127) P= .000	.3891 (1127) P= .000
WRISTC	1.0000 (1127) P= .000	.4724 (1127) P= .000	.4874 (1127) P= .000	.5219 (1124) P= .000	.4288 (1125) P= .000	.4714 (1127) P= .000	.0801 (1127) P= .004	.4789 (1123) P= .000	.5887 (1127) P= .000	.2888 (1127) P= .000	.4203 (1127) P= .000
KNEEC	.4724 (1127) P= .000	1.0000 (1128) P= .000	.5464 (1126) P= .000	.4832 (1125) P= .000	.3523 (1126) P= .000	.4455 (1128) P= .000	.1029 (1128) P= .000	.3832 (1124) P= .000	.6245 (1128) P= .000	.2188 (1128) P= .000	.3816 (1128) P= .000
CALFC	.4874 (1127) P= .000	.5464 (1128) P= .000	1.0000 (1128) P= .000	.5773 (1125) P= .000	.4913 (1126) P= .000	.5748 (1128) P= .000	.0994 (1128) P= .000	.3230 (1124) P= .000	.7480 (1128) P= .000	.1971 (1128) P= .000	.4098 (1128) P= .000
ANKLEC	.5219 (1124) P= .000	.4832 (1125) P= .000	.5773 (1125) P= .000	1.0000 (1125) P= .000	.3465 (1123) P= .000	.3727 (1125) P= .000	-0.0448 (1125) P= .067	.4151 (1121) P= .000	.5680 (1125) P= .000	.3124 (1125) P= .000	.4361 (1125) P= .000
NECKC	.4286 (1125) P= .000	.3523 (1126) P= .000	.4913 (1128) P= .000	.3465 (1123) P= .000	1.0000 (1126) P= .000	.6033 (1128) P= .000	.1869 (1126) P= .000	.2633 (1122) P= .000	.6743 (1126) P= .000	.0511 (1126) P= .043	.2864 (1126) P= .000
FLXBICC	.4714 (1127) P= .000	.4455 (1128) P= .000	.5748 (1128) P= .000	.3727 (1125) P= .000	.6033 (1126) P= .000	1.0000 (1128) P= .000	.0833 (1128) P= .003	.1873 (1124) P= .000	.7056 (1128) P= .000	.0976 (1128) P= .001	.4069 (1128) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
HIPC	.3043 (1125) P= .000	.3290 (1127) P= .000	.4672 (1127) P= .000	.2778 (1126) P= .000	.3574 (1125) P= .000	.3474 (1124) P= .000	.3634 (1126) P= .000	.4397 (752) P= .000	-0.4606 (963) P= .000	-0.1384 (961) P= .000	.2901 (801) P= .000
THIC	-0.0478 (1123) P= .055	-0.0276 (1125) P= .178	.4959 (1125) P= .000	.2364 (1124) P= .000	.0834 (1123) P= .003	.2324 (1122) P= .000	.2149 (1124) P= .000	.4174 (751) P= .000	-0.3642 (962) P= .000	-0.0986 (960) P= .001	.3348 (800) P= .000
BICEPC	.0912 (1126) P= .001	.1290 (1128) P= .000	.3980 (1128) P= .000	.2416 (1127) P= .000	.2638 (1126) P= .000	.2799 (1125) P= .000	.3517 (1127) P= .000	.4410 (753) P= .000	-0.3253 (964) P= .000	-0.0924 (962) P= .002	.5040 (802) P= .000
FOREC	.1042 (1125) P= .000	.1433 (1127) P= .000	.3796 (1127) P= .000	.3125 (1126) P= .000	.2638 (1125) P= .000	.3443 (1124) P= .000	.4032 (1126) P= .000	.4815 (752) P= .000	-0.2305 (963) P= .000	-0.0722 (961) P= .013	.5257 (801) P= .000
WRISTC	.2724 (1125) P= .000	.3031 (1127) P= .000	.4017 (1127) P= .000	.4466 (1126) P= .000	.3467 (1125) P= .000	.4452 (1124) P= .000	.6313 (1126) P= .000	.4864 (752) P= .000	-0.1634 (963) P= .000	-0.1115 (961) P= .000	.4222 (801) P= .000
KNEEC	.3003 (1126) P= .000	.3348 (1128) P= .000	.4543 (1128) P= .000	.3777 (1127) P= .000	.3421 (1126) P= .000	.3424 (1125) P= .000	.3867 (1127) P= .000	.4354 (753) P= .000	-0.1993 (964) P= .000	-0.1092 (962) P= .000	.3237 (802) P= .000
CALFC	.2828 (1126) P= .000	.2982 (1128) P= .000	.4595 (1128) P= .000	.3567 (1127) P= .000	.3510 (1126) P= .000	.3598 (1125) P= .000	.4041 (1127) P= .000	.5017 (753) P= .000	-0.2752 (964) P= .000	-0.1580 (962) P= .000	.3953 (802) P= .000
ANKLEC	.3893 (1123) P= .000	.4186 (1125) P= .000	.4393 (1125) P= .000	.4384 (1124) P= .000	.3736 (1123) P= .000	.3581 (1122) P= .000	.4409 (1124) P= .000	.5251 (752) P= .000	-0.0548 (962) P= .047	-0.0614 (960) P= .029	.3693 (801) P= .000
NECKC	.0579 (1124) P= .028	.0262 (1126) P= .190	.3548 (1126) P= .000	.2331 (1125) P= .000	.2082 (1124) P= .000	.2847 (1123) P= .000	.3313 (1125) P= .000	.3789 (751) P= .000	-0.3267 (962) P= .000	-0.1938 (960) P= .000	.3248 (800) P= .000
FLXBICC	.0730 (1126) P= .007	.1093 (1128) P= .000	.3731 (1128) P= .000	.2422 (1127) P= .000	.2591 (1126) P= .000	.2959 (1125) P= .000	.3439 (1127) P= .000	.4487 (753) P= .000	-0.2918 (964) P= .000	-0.0796 (962) P= .007	.5352 (802) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
HIPC	.3101 (752) P= .000	-0.0398 (752) P= .138	-0.4521 (752) P= .000	-0.0742 (752) P= .021	-0.2871 (752) P= .000	-0.3536 (752) P= .000	.2472 (1122) P= .000	.1151 (999) P= .000	-0.6087 (1125) P= .000	.6164 (1125) P= .000	.6681 (1125) P= .000
THIC	.2878 (751) P= .000	-0.0606 (751) P= .048	-0.3554 (751) P= .000	-0.0767 (751) P= .018	-0.2061 (751) P= .000	-0.2753 (751) P= .000	.1348 (1120) P= .000	.0077 (998) P= .404	-0.3683 (1123) P= .000	.3697 (1123) P= .000	.5795 (1123) P= .000
BICEPC	.2731 (753) P= .000	-0.0879 (753) P= .008	-0.3560 (753) P= .000	-0.1169 (753) P= .001	-0.2207 (753) P= .000	-0.2424 (753) P= .000	.0826 (1123) P= .003	-0.0393 (1000) P= .107	-0.3331 (1126) P= .000	.3345 (1126) P= .000	.6262 (1126) P= .000
FOREC	.3127 (752) P= .000	-0.0311 (752) P= .197	-0.2351 (752) P= .000	-0.1078 (752) P= .002	-0.1324 (752) P= .000	-0.1581 (752) P= .000	.1665 (1122) P= .000	.0152 (999) P= .315	-0.1547 (1125) P= .000	.1555 (1125) P= .000	.6776 (1125) P= .000
WRISTC	.3433 (752) P= .000	.0303 (752) P= .203	-0.1484 (752) P= .000	-0.0771 (752) P= .017	-0.0939 (752) P= .005	-0.1460 (752) P= .000	.3099 (1122) P= .000	.1889 (999) P= .000	-0.1235 (1125) P= .000	.1235 (1125) P= .000	.6144 (1125) P= .000
KNEEC	.2818 (753) P= .000	-0.0484 (753) P= .092	-0.2084 (753) P= .000	-0.1063 (753) P= .002	-0.1200 (753) P= .000	-0.1514 (753) P= .000	.2331 (1123) P= .000	.1177 (1000) P= .000	-0.2878 (1126) P= .000	.2879 (1126) P= .000	.5334 (1126) P= .000
CALFC	.3423 (753) P= .000	.0071 (753) P= .422	-0.2675 (753) P= .000	-0.0948 (753) P= .005	-0.1863 (753) P= .000	-0.2416 (753) P= .000	.2607 (1123) P= .000	.0825 (1000) P= .005	-0.3445 (1126) P= .000	.3453 (1126) P= .000	.6402 (1126) P= .000
ANKLEC	.3276 (752) P= .000	.0123 (752) P= .368	-0.0544 (752) P= .068	-0.1546 (752) P= .000	-0.0574 (752) P= .058	-0.0662 (752) P= .035	.3189 (1120) P= .000	.1122 (997) P= .000	-0.1572 (1123) P= .000	.1578 (1123) P= .000	.5592 (1123) P= .000
NECKC	.3007 (751) P= .000	-0.0407 (751) P= .133	-0.3209 (751) P= .000	-0.0162 (751) P= .329	-0.1606 (751) P= .000	-0.2822 (751) P= .000	.1794 (1121) P= .000	.1139 (998) P= .000	-0.2954 (1124) P= .000	.2978 (1124) P= .000	.5862 (1124) P= .000
FLXBICC	.2935 (753) P= .000	-0.0719 (753) P= .024	-0.3171 (753) P= .000	-0.0996 (753) P= .003	-0.1636 (753) P= .000	-0.2219 (753) P= .000	.0797 (1123) P= .004	-0.0268 (1000) P= .199	-0.2448 (1126) P= .000	.2464 (1126) P= .000	.6579 (1126) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
HIPC	.7779 (1125) P= .000	.6827 (1126) P= .000	.5973 (1125) P= .000	.6817 (1126) P= .000	.5982 (1122) P= .000	.6649 (1123) P= .000	.4298 (1123) P= .000	-0.6012 (1123) P= .000	-0.5517 (991) P= .000	-0.5336 (865) P= .000	.6832 (863) P= .000
THIC	.5250 (1123) P= .000	.4523 (1124) P= .000	.3660 (1123) P= .000	.4519 (1124) P= .000	.3700 (1120) P= .000	.4338 (1121) P= .000	.5329 (1121) P= .000	-0.5818 (1121) P= .000	-0.3909 (988) P= .000	-0.3232 (863) P= .000	.4958 (861) P= .000
BICEPC	.5101 (1126) P= .000	.5102 (1127) P= .000	.4107 (1126) P= .000	.5119 (1127) P= .000	.4148 (1123) P= .000	.4850 (1124) P= .000	.6568 (1124) P= .000	-0.6221 (1124) P= .000	-0.4218 (991) P= .000	-0.2487 (865) P= .000	.4635 (863) P= .000
FOREC	.3460 (1125) P= .000	.3173 (1126) P= .000	.2312 (1125) P= .000	.3181 (1126) P= .000	.2335 (1122) P= .000	.2992 (1123) P= .000	.5041 (1123) P= .000	-0.4527 (1123) P= .000	-0.3267 (990) P= .000	-0.1548 (864) P= .000	.3820 (862) P= .000
WRISTC	.2962 (1125) P= .000	.2261 (1126) P= .000	.2010 (1125) P= .000	.2245 (1126) P= .000	.1972 (1122) P= .000	.2128 (1123) P= .000	.2628 (1123) P= .000	-0.2151 (1123) P= .000	-0.1787 (990) P= .000	-0.1095 (864) P= .001	.1743 (862) P= .000
KNEEC	.4326 (1126) P= .000	.3778 (1127) P= .000	.3378 (1126) P= .000	.3769 (1127) P= .000	.3355 (1123) P= .000	.3884 (1124) P= .000	.3223 (1124) P= .000	-0.3408 (1124) P= .000	-0.2606 (991) P= .000	-0.2484 (865) P= .000	.3720 (863) P= .000
CALFC	.5231 (1126) P= .000	.4528 (1127) P= .000	.3866 (1126) P= .000	.4508 (1127) P= .000	.3831 (1123) P= .000	.4407 (1124) P= .000	.5849 (1124) P= .000	-0.5146 (1124) P= .000	-0.4055 (991) P= .000	-0.3034 (865) P= .000	.4524 (863) P= .000
ANKLEC	.3198 (1123) P= .000	.2647 (1124) P= .000	.1971 (1123) P= .000	.2525 (1124) P= .000	.1913 (1120) P= .000	.2599 (1121) P= .000	.2883 (1121) P= .000	-0.2427 (1121) P= .000	-0.2204 (988) P= .000	-0.1594 (862) P= .000	.2466 (860) P= .000
NECKC	.4609 (1124) P= .000	.4102 (1125) P= .000	.3624 (1124) P= .000	.4093 (1125) P= .000	.3629 (1121) P= .000	.3925 (1122) P= .000	.4097 (1122) P= .000	-0.4810 (1122) P= .000	-0.3597 (991) P= .000	-0.2621 (863) P= .000	.3936 (861) P= .000
FLXBICC	.4335 (1126) P= .000	.4134 (1127) P= .000	.3248 (1126) P= .000	.4160 (1127) P= .000	.3310 (1123) P= .000	.3885 (1124) P= .000	.6188 (1124) P= .000	-0.5945 (1124) P= .000	-0.3711 (991) P= .000	-0.2029 (865) P= .000	.3932 (863) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	MY	GENDER
HIPC	.1475	.0705	.0604	.0001	.0875	-0.1375	-0.2417	.2614	-0.1463	.	.
	(270)	(270)	(269)	(270)	(269)	(254)	(254)	(253)	(255)	(270)	(270)
	P= .008	P= .124	P= .162	P= .500	P= .076	P= .014	P= .000	P= .000	P= .010	P= .	P= .
THIC	.0426	.0075	.0503	-0.0413	.1327	-0.0378	-0.2038	.2449	-0.1326	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .242	P= .451	P= .205	P= .249	P= .015	P= .274	P= .001	P= .000	P= .017	P= .	P= .
BICEPC	.0748	-0.0350	.0886	-0.1462	.0606	-0.1804	-0.1508	.2868	-0.1388	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .110	P= .283	P= .073	P= .008	P= .160	P= .002	P= .008	P= .000	P= .013	P= .	P= .
FOREC	-0.0193	.0059	.1082	-0.1465	.0194	-0.0738	-0.0588	.1014	-0.0461	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .378	P= .462	P= .038	P= .008	P= .375	P= .120	P= .175	P= .353	P= .232	P= .	P= .
WRISTC	.0526	-0.0611	.0050	-0.0912	-0.0635	-0.0098	.1017	-0.1718	.1081	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .194	P= .158	P= .467	P= .067	P= .149	P= .438	P= .053	P= .003	P= .042	P= .	P= .
KNEEC	.0424	.1303	.0672	-0.0534	.0647	-0.0853	-0.2010	.1758	-0.1309	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .244	P= .016	P= .135	P= .191	P= .145	P= .087	P= .001	P= .002	P= .018	P= .	P= .
CALFC	.0326	-0.0675	.1093	-0.0617	.0422	-0.1371	-0.1931	.2508	-0.1761	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .296	P= .134	P= .036	P= .156	P= .245	P= .014	P= .001	P= .000	P= .002	P= .	P= .
ANKLEC	-0.0346	-0.0680	.0789	-0.0316	.0097	-0.0358	-0.1152	.0620	-0.0705	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .285	P= .132	P= .098	P= .303	P= .437	P= .286	P= .033	P= .163	P= .131	P= .	P= .
NECKC	.0453	.0080	.0699	-0.0721	-0.0360	-0.1107	-0.0600	.0371	-0.0613	.	.
	(270)	(270)	(269)	(270)	(269)	(254)	(254)	(253)	(255)	(270)	(270)
	P= .229	P= .448	P= .127	P= .119	P= .278	P= .039	P= .171	P= .278	P= .162	P= .	P= .
FLXBICC	.0593	-0.0416	.0941	-0.1383	.0940	-0.0770	-0.0875	.1664	-0.0063	.	.
	(268)	(268)	(267)	(268)	(267)	(252)	(252)	(251)	(253)	(268)	(268)
	P= .187	P= .249	P= .063	P= .012	P= .063	P= .112	P= .083	P= .004	P= .460	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
HIPC	-0.0935	.4201	.3854	.5580	.6180	.5053	.4959	.4527	.4912	.5367	.2149
	(270)	(270)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(270)	(270)
	P= .063	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
THIC	.0045	.2567	.2892	.4269	.4884	.3658	.3179	.2624	.3048	.4433	.1473
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .471	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .008
BICEPC	.0697	.4600	.3622	.5577	.7221	.5315	.5503	.4927	.5248	.5323	.2793
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .126	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
FOREC	-0.0020	.2432	.2062	.3269	.3283	.2677	.2701	.2104	.2314	.2335	.2456
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .487	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
WRISTC	.0331	.0109	-0.0549	-0.0138	.0233	-0.0207	.0276	.0382	.0001	.0102	-0.0260
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .294	P= .429	P= .184	P= .410	P= .351	P= .368	P= .326	P= .265	P= .500	P= .434	P= .335
KNEEC	-0.0405	.2706	.1702	.3421	.4605	.3252	.3156	.2516	.2424	.3824	.2273
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .253	P= .000	P= .002	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CALFC	-0.0616	.3139	.2108	.3699	.5107	.3386	.3465	.2999	.3252	.4090	.2989
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .156	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ANKLEC	-0.1535	.2633	.0331	.1838	.3273	.2021	.2728	.2523	.2067	.3694	.2307
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .006	P= .000	P= .294	P= .001	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
NECKC	.0585	.2686	.2649	.2986	.1885	.2368	.2046	.1895	.1813	.1053	.1310
	(270)	(270)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(270)	(270)
	P= .169	P= .000	P= .000	P= .000	P= .001	P= .000	P= .000	P= .001	P= .001	P= .042	P= .016
FLXBICC	.1275	.3984	.3247	.4921	.5942	.4719	.4838	.4321	.4459	.4162	.3014
	(268)	(268)	(268)	(268)	(268)	(267)	(268)	(268)	(268)	(268)	(268)
	P= .018	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
HIPC	.5181 (270) P= .000	.4670 (270) P= .000	.0973 (269) P= .056	.6057 (269) P= .000	.5489 (269) P= .000	.5796 (269) P= .000	.7025 (269) P= .000	1.0000 (270) P= .000	.7030 (270) P= .000	.7162 (270) P= .000	.5270 (270) P= .000
THIC	.4371 (271) P= .000	.3110 (271) P= .000	.0944 (270) P= .061	.4166 (270) P= .000	.4504 (270) P= .000	.5056 (270) P= .000	.4577 (270) P= .000	.7030 (270) P= .000	1.0000 (271) P= .000	.5876 (271) P= .000	.4588 (271) P= .000
BICEPC	.5187 (271) P= .000	.5616 (271) P= .000	.0771 (270) P= .103	.6649 (270) P= .000	.6540 (270) P= .000	.6774 (270) P= .000	.6502 (270) P= .000	.7162 (270) P= .000	.5876 (271) P= .000	1.0000 (271) P= .000	.6815 (271) P= .000
FOREC	.3165 (271) P= .000	.3053 (271) P= .000	.1305 (270) P= .018	.6671 (270) P= .000	.5128 (270) P= .000	.5436 (270) P= .000	.4873 (270) P= .000	.5270 (270) P= .000	.4588 (271) P= .000	.6815 (271) P= .000	1.0000 (271) P= .000
WRISTC	.0703 (271) P= .124	-0.0049 (271) P= .468	.2695 (270) P= .000	.2317 (270) P= .000	.1614 (270) P= .004	.1026 (270) P= .046	.1340 (270) P= .014	.1506 (270) P= .007	.0567 (271) P= .176	.2151 (271) P= .000	.2404 (271) P= .000
KNEEC	.4843 (271) P= .000	.3348 (271) P= .000	.1730 (270) P= .002	.3741 (270) P= .000	.4238 (270) P= .000	.4331 (270) P= .000	.4542 (270) P= .000	.6282 (270) P= .000	.5625 (271) P= .000	.5311 (271) P= .000	.4725 (271) P= .000
CALFC	.4758 (271) P= .000	.3711 (271) P= .000	.1066 (270) P= .040	.4281 (270) P= .000	.4445 (270) P= .000	.4982 (270) P= .000	.4892 (270) P= .000	.6210 (270) P= .000	.5667 (271) P= .000	.6065 (271) P= .000	.5259 (271) P= .000
ANKLEC	.4196 (271) P= .000	.2263 (271) P= .000	.0954 (270) P= .059	.3759 (270) P= .000	.3703 (270) P= .000	.3578 (270) P= .000	.3908 (270) P= .000	.5469 (270) P= .000	.3842 (271) P= .000	.4539 (271) P= .000	.4356 (271) P= .000
NECKC	.1367 (270) P= .012	.2874 (270) P= .000	.1863 (269) P= .001	.4769 (269) P= .000	.4453 (269) P= .000	.4926 (269) P= .000	.4123 (269) P= .000	.4111 (269) P= .000	.3091 (270) P= .000	.4215 (270) P= .000	.4826 (270) P= .000
FLXBICC	.4237 (268) P= .000	.5052 (268) P= .000	.1143 (267) P= .031	.6575 (267) P= .000	.6278 (267) P= .000	.6319 (267) P= .000	.5733 (267) P= .000	.6357 (267) P= .000	.5173 (268) P= .000	.8541 (268) P= .000	.6726 (268) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
HIPC	.1508 (270) P= .007	.6282 (270) P= .000	.6210 (270) P= .000	.5469 (270) P= .000	.4111 (269) P= .000	.6357 (267) P= .000	.1894 (270) P= .001	.2611 (270) P= .000	.8636 (270) P= .000	.2198 (270) P= .000	.4307 (270) P= .000
THIC	.0567 (271) P= .176	.5825 (271) P= .000	.5867 (271) P= .000	.3842 (271) P= .000	.3091 (270) P= .000	.5173 (268) P= .000	.0149 (271) P= .403	.1479 (271) P= .007	.6965 (271) P= .000	-0.0275 (271) P= .326	.2895 (271) P= .000
BICEPC	.2151 (271) P= .000	.5311 (271) P= .000	.6065 (271) P= .000	.4539 (271) P= .000	.4215 (270) P= .000	.8541 (268) P= .000	.1301 (271) P= .016	.1296 (271) P= .017	.7848 (271) P= .000	.2522 (271) P= .000	.5111 (271) P= .000
FOREC	.2404 (271) P= .000	.4725 (271) P= .000	.5259 (271) P= .000	.4356 (271) P= .000	.4826 (270) P= .000	.6726 (268) P= .000	.0275 (271) P= .326	.2491 (271) P= .000	.6666 (271) P= .000	.1871 (271) P= .001	.3749 (271) P= .000
WRISTC	1.0000 (271) P= .000	.1644 (271) P= .003	.1519 (271) P= .006	.2941 (271) P= .000	.1975 (270) P= .001	.2014 (268) P= .000	-0.0123 (271) P= .420	.2101 (271) P= .000	.2337 (271) P= .000	.2947 (271) P= .000	.2606 (271) P= .000
KNEEC	.1644 (271) P= .003	1.0000 (271) P= .000	.5962 (271) P= .000	.5406 (271) P= .000	.2763 (270) P= .000	.5009 (268) P= .000	.1429 (271) P= .009	.3548 (271) P= .000	.6903 (271) P= .000	.1541 (271) P= .006	.3296 (271) P= .000
CALFC	.1519 (271) P= .006	.5962 (271) P= .000	1.0000 (271) P= .000	.6623 (271) P= .000	.2831 (270) P= .000	.5344 (268) P= .000	.0626 (271) P= .152	.2407 (271) P= .000	.7137 (271) P= .000	.1899 (271) P= .001	.3530 (271) P= .000
ANKLEC	.2941 (271) P= .000	.5408 (271) P= .000	.6623 (271) P= .000	1.0000 (271) P= .000	.2152 (270) P= .000	.3819 (268) P= .000	-0.0133 (271) P= .414	.3427 (271) P= .000	.6168 (271) P= .000	.3308 (271) P= .000	.4175 (271) P= .000
NECKC	.1975 (270) P= .001	.2763 (270) P= .000	.2831 (270) P= .000	.2152 (270) P= .000	1.0000 (270) P= .000	.4713 (267) P= .000	.0695 (270) P= .127	.2487 (270) P= .000	.5222 (270) P= .000	.1184 (270) P= .026	.1962 (270) P= .001
FLXBICC	.2014 (268) P= .000	.5009 (268) P= .000	.5344 (268) P= .000	.3819 (268) P= .000	.4713 (267) P= .000	1.0000 (268) P= .000	.1615 (268) P= .004	.1721 (268) P= .002	.7323 (268) P= .000	.2534 (268) P= .000	.4711 (268) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
HIPC	.3451 (269) P= .000	.4371 (270) P= .000	.4889 (270) P= .000	.2710 (270) P= .000	.2985 (270) P= .000	.1502 (270) P= .007	.2872 (269) P= .000	.4600 (236) P= .000	-0.4550 (237) P= .000	-0.0592 (237) P= .182	.1477 (242) P= .011
THIC	.0396 (270) P= .258	.1469 (271) P= .008	.4012 (271) P= .000	.0404 (271) P= .254	.0880 (271) P= .074	.0592 (271) P= .168	.1041 (270) P= .044	.4259 (237) P= .000	-0.3617 (238) P= .000	.0091 (238) P= .444	.2104 (243) P= .000
BICEPC	.3017 (270) P= .000	.3589 (271) P= .000	.5024 (271) P= .000	.1683 (271) P= .003	.3463 (271) P= .000	.2158 (271) P= .000	.2930 (270) P= .000	.4029 (237) P= .000	-0.4325 (238) P= .000	-0.0462 (238) P= .229	.2190 (243) P= .000
FOREC	.1153 (270) P= .029	.1960 (271) P= .001	.4232 (271) P= .000	.3092 (271) P= .000	.2071 (271) P= .000	.3002 (271) P= .000	.3567 (270) P= .000	.4658 (237) P= .000	-0.2524 (238) P= .000	.0375 (238) P= .282	.2783 (243) P= .000
WRISTC	.2123 (270) P= .000	.2583 (271) P= .000	.1805 (271) P= .001	.3114 (271) P= .000	.2393 (271) P= .000	.2262 (271) P= .000	.3801 (270) P= .000	.3867 (237) P= .000	.1580 (238) P= .007	.0400 (238) P= .270	.2114 (243) P= .000
KNEEC	.2422 (270) P= .000	.3479 (271) P= .000	.5715 (271) P= .000	.2851 (271) P= .000	.2359 (271) P= .000	.2190 (271) P= .000	.3350 (270) P= .000	.4416 (237) P= .000	-0.2903 (238) P= .000	-0.0346 (238) P= .298	.1860 (243) P= .050
CALFC	.2870 (270) P= .000	.3349 (271) P= .000	.4828 (271) P= .000	.2974 (271) P= .000	.2943 (271) P= .000	.1402 (271) P= .010	.3068 (270) P= .000	.4285 (237) P= .000	-0.3255 (238) P= .000	-0.0480 (238) P= .231	.1277 (243) P= .023
ANKLEC	.3737 (270) P= .000	.4310 (271) P= .000	.4781 (271) P= .000	.5656 (271) P= .000	.3523 (271) P= .000	.2813 (271) P= .000	.4709 (270) P= .000	.5428 (237) P= .000	-0.1165 (238) P= .036	-0.0289 (238) P= .328	.1787 (243) P= .003
NECKC	.0467 (269) P= .253	.0462 (270) P= .225	.1549 (270) P= .005	.1938 (270) P= .001	.0082 (270) P= .674	.1721 (270) P= .002	.2104 (269) P= .000	.3700 (236) P= .000	-0.1841 (237) P= .002	.0044 (237) P= .473	.2536 (242) P= .000
FLXBICC	.2661 (267) P= .000	.3121 (268) P= .000	.4167 (268) P= .000	.1527 (268) P= .006	.3318 (268) P= .000	.2333 (268) P= .000	.2825 (267) P= .000	.4621 (235) P= .000	-0.3150 (236) P= .000	-0.0202 (236) P= .379	.2665 (241) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VC02	VEV02	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
HIPC	.2743	-0.0326	-0.4035	-0.1425	-0.2162	-0.3047	.1818	.0207	-0.6389	.6393	.5193
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .309	P= .000	P= .014	P= .000	P= .000	P= .002	P= .370	P= .000	P= .000	P= .000
THIC	.3131	-0.0377	-0.3342	-0.0689	-0.2151	-0.2297	.0802	-0.1247	-0.5502	.5483	.4002
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .282	P= .000	P= .152	P= .000	P= .000	P= .097	P= .022	P= .000	P= .000	P= .000
BICEPC	.2687	.0199	-0.3550	-0.1038	-0.1764	-0.3328	.1738	-0.0300	-0.5423	.5468	4989
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .380	P= .000	P= .056	P= .003	P= .000	P= .002	P= .315	P= .000	P= .000	P= .000
FOREC	.3090	.0220	-0.1994	-0.1104	-0.1415	-0.1594	.3103	.0194	-0.2288	.2316	.6106
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .368	P= .001	P= .045	P= .015	P= .007	P= .000	P= .378	P= .000	P= .000	P= .000
WRISTC	.3081	.0461	.1585	-0.0091	.0685	.0992	.1951	.0448	.0803	-0.0788	.3237
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .240	P= .007	P= .444	P= .147	P= .064	P= .001	P= .238	P= .096	P= .100	P= .000
KNEEC	.2762	-0.0242	-0.2596	-0.1140	-0.0535	-0.2048	.2633	.1208	-0.3886	.3904	.5000
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .355	P= .000	P= .040	P= .206	P= .001	P= .000	P= .026	P= .000	P= .000	P= .000
CALFC	.2110	.0016	-0.2791	-0.1886	-0.1827	-0.2642	.2220	.0123	-0.4540	.4563	.4846
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .001	P= .490	P= .000	P= .002	P= .002	P= .000	P= .000	P= .422	P= .000	P= .000	P= .000
ANKLEC	.2723	-0.0287	-0.1188	-0.2175	-0.0551	-0.1017	.3545	.1035	-0.2609	.2620	.5268
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .330	P= .034	P= .000	P= .199	P= .059	P= .000	P= .048	P= .000	P= .000	P= .000
NECKC	.2614	.0762	-0.1113	-0.0665	-0.0531	-0.0575	.2757	.1235	-0.1394	.1417	.4902
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .122	P= .044	P= .154	P= .209	P= .190	P= .000	P= .024	P= .012	P= .011	P= .000
FLXBICC	.2794	.0402	-0.2407	-0.1420	-0.1148	-0.2043	.2110	.0305	-0.4457	.4500	.5125
	(235)	(235)	(235)	(235)	(235)	(235)	(262)	(258)	(263)	(263)	(263)
	P= .000	P= .270	P= .000	P= .015	P= .040	P= .001	P= .000	P= .313	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
HIPC	.8162	.6176	.6093	.6182	.6059	.6146	.4459	-0.6149	-0.5240	-0.6222	.7117
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
THIC	.6747	.4322	.4423	.4341	.4201	.4481	.4209	-0.5794	-0.4016	-0.4219	.5845
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
BICEPC	.7151	.6833	.6567	.6811	.6734	.6572	.6614	-0.6579	-0.4667	-0.5428	.6476
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
FOREC	.4381	.3330	.3125	.3369	.3431	.3122	.4748	-0.4908	-0.2407	-0.2624	.4088
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
WRISTC	.0412	.0190	.0235	.0260	.0388	.0250	.1224	-0.0371	-0.0582	-0.0500	.0199
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .252	P= .378	P= .350	P= .335	P= .263	P= .341	P= .022	P= .272	P= .185	P= .231	P= .386
KNEEC	.5677	.4007	.3961	.4017	.3919	.3773	.3731	-0.3620	-0.3417	-0.3386	.4395
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
CALFC	.6257	.4508	.4309	.4506	.4285	.4252	.6057	-0.5084	-0.3598	-0.4303	.5526
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ANKLEC	.4461	.2986	.2863	.2972	.2731	.2818	.3536	-0.3189	-0.2409	-0.3310	.3687
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
NECKC	.3185	.2718	.2581	.2771	.2825	.2554	.1695	-0.3240	-0.2205	-0.2103	.2616
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .003	P= .000	P= .000	P= .001	P= .000
FLXBICC	.6264	.5908	.5655	.5934	.5920	.5566	.5498	-0.5766	-0.3823	-0.4546	.5527
	(263)	(268)	(268)	(268)	(267)	(268)	(268)	(268)	(236)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
AGE	.8852 (1126) P= .000	.7943 (1126) P= .000	-0.0157 (1112) P= .301	.0111 (1117) P= .355	.5038 (1109) P= .000	-0.4470 (1014) P= .000	-0.5179 (1014) P= .000	.3981 (1006) P= .000	-0.2711 (833) P= .000	. (1128) P= .	. (1128) P= .
HT	.1525 (1122) P= .000	.2121 (1124) P= .000	-0.0570 (1108) P= .029	-0.0225 (1113) P= .227	.1680 (1105) P= .000	-0.1093 (1010) P= .000	-0.1541 (1010) P= .000	.0408 (1002) P= .098	-0.0323 (829) P= .176	. (1124) P= .	. (1124) P= .
WT	.2932 (1126) P= .000	.2408 (1128) P= .000	.0204 (1112) P= .249	.0301 (1117) P= .158	.1625 (1109) P= .000	-0.2683 (1014) P= .000	-0.2533 (1014) P= .000	.3293 (1006) P= .000	-0.2484 (833) P= .000	. (1128) P= .	. (1128) P= .
BIACD	.0172 (1126) P= .282	.1615 (1128) P= .000	-0.0813 (1112) P= .003	-0.2147 (1117) P= .000	.1134 (1109) P= .000	.0503 (1014) P= .055	.0135 (1014) P= .334	-0.1006 (1006) P= .001	.1601 (833) P= .000	. (1128) P= .	. (1128) P= .
BIDELD	-0.0360 (1126) P= .113	.0252 (1128) P= .199	-0.0280 (1112) P= .176	-0.1168 (1117) P= .000	.0782 (1109) P= .005	-0.0211 (1014) P= .251	.0369 (1014) P= .120	.0229 (1006) P= .234	.0205 (833) P= .277	. (1128) P= .	. (1128) P= .
IILIACD	.1615 (1124) P= .000	.2614 (1126) P= .000	-0.0651 (1110) P= .015	-0.1705 (1115) P= .000	.1943 (1107) P= .000	-0.1351 (1012) P= .000	-0.2054 (1012) P= .000	.0531 (1004) P= .046	-0.0164 (831) P= .318	. (1126) P= .	. (1126) P= .
BITROD	.0702 (1126) P= .009	.1744 (1128) P= .000	-0.0804 (1112) P= .004	-0.1851 (1117) P= .000	.1127 (1109) P= .000	-0.0692 (1014) P= .014	-0.1400 (1014) P= .000	.0151 (1006) P= .316	.0059 (833) P= .433	. (1128) P= .	. (1128) P= .
KNEED	.0263 (1126) P= .189	-0.0021 (1128) P= .472	-0.0019 (1112) P= .474	.0170 (1117) P= .285	.0564 (1109) P= .030	-0.0690 (1014) P= .014	-0.0485 (1014) P= .061	.0693 (1006) P= .002	-0.0862 (833) P= .006	. (1128) P= .	. (1128) P= .
ANKLED	.1095 (1125) P= .000	.1280 (1127) P= .000	-0.0744 (1111) P= .007	-0.0453 (1116) P= .065	.0399 (1108) P= .092	-0.0188 (1013) P= .276	-0.0384 (1013) P= .111	.0181 (1005) P= .283	.0201 (832) P= .281	. (1127) P= .	. (1127) P= .
CHSTD	.1465 (1124) P= .000	.2408 (1126) P= .000	-0.0681 (1110) P= .012	-0.1798 (1115) P= .000	.1459 (1107) P= .000	-0.1076 (1012) P= .000	-0.1074 (1012) P= .000	.0696 (1005) P= .014	.0194 (831) P= .288	. (1126) P= .	. (1126) P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
AGE	-0.1149 (1128) P= .000	.4707 (1127) P= .000	.4447 (1127) P= .000	.2805 (1127) P= .000	.1122 (1127) P= .000	.3179 (1127) P= .000	.2389 (1127) P= .000	.2404 (1127) P= .000	.4028 (1127) P= .000	.1549 (1126) P= .000	-0.0555 (1127) P= .031
HT	-0.2846 (1124) P= .000	.0876 (1123) P= .002	.0874 (1123) P= .002	.0079 (1123) P= .395	.0978 (1123) P= .001	.0845 (1123) P= .002	.0828 (1123) P= .003	.0762 (1123) P= .005	.0588 (1123) P= .024	.0840 (1122) P= .002	.0064 (1123) P= .415
WT	-0.1571 (1128) P= .000	.4732 (1127) P= .000	.6057 (1127) P= .000	.6012 (1127) P= .000	.4908 (1127) P= .000	.6421 (1127) P= .000	.6169 (1127) P= .000	.5811 (1127) P= .000	.6217 (1127) P= .000	.4513 (1126) P= .000	.3225 (1127) P= .000
BIACD	-0.1604 (1128) P= .000	.0276 (1127) P= .177	.0268 (1127) P= .185	.0078 (1127) P= .397	.0861 (1127) P= .002	.1228 (1127) P= .000	.1255 (1127) P= .000	.1252 (1127) P= .000	.0522 (1127) P= .040	-0.0013 (1126) P= .482	-0.0297 (1127) P= .159
BIDELD	-0.0857 (1128) P= .002	.1046 (1127) P= .000	.2162 (1127) P= .000	.2532 (1127) P= .000	.2405 (1127) P= .000	.3180 (1127) P= .000	.3047 (1127) P= .000	.3003 (1127) P= .000	.2523 (1127) P= .000	.1478 (1126) P= .000	.1081 (1127) P= .000
IILIACD	-0.2728 (1126) P= .000	.2469 (1125) P= .000	.2219 (1125) P= .000	.1220 (1125) P= .000	.2542 (1125) P= .000	.3269 (1125) P= .000	.2905 (1125) P= .000	.2633 (1125) P= .000	.2303 (1125) P= .000	.2187 (1124) P= .000	-0.0212 (1125) P= .239
BITROD	-0.2359 (1128) P= .000	.1672 (1127) P= .000	.1499 (1127) P= .000	.1139 (1127) P= .000	.2846 (1127) P= .000	.2894 (1127) P= .000	.2752 (1127) P= .000	.2581 (1127) P= .000	.1861 (1127) P= .000	.2251 (1126) P= .000	.0073 (1127) P= .404
KNEED	-0.0353 (1128) P= .118	.0974 (1127) P= .001	.2204 (1127) P= .000	.2391 (1127) P= .000	.2560 (1127) P= .000	.2215 (1127) P= .000	.2192 (1127) P= .000	.2020 (1127) P= .000	.2265 (1127) P= .000	.2683 (1126) P= .000	.1947 (1127) P= .000
ANKLED	-0.1615 (1127) P= .000	.0349 (1126) P= .121	.0187 (1126) P= .265	.0009 (1126) P= .487	.0505 (1126) P= .045	.0530 (1126) P= .038	.0629 (1126) P= .017	.0195 (1126) P= .257	.0220 (1126) P= .230	.0624 (1125) P= .018	.0576 (1126) P= .027
CHSTD	-0.2407 (1126) P= .000	.2809 (1125) P= .000	.2806 (1125) P= .000	.1984 (1125) P= .000	.2546 (1125) P= .000	.3786 (1125) P= .000	.3613 (1125) P= .000	.3380 (1125) P= .000	.3108 (1125) P= .000	.1922 (1124) P= .000	.0547 (1125) P= .033

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
AGE	-0.0392 (1126) P= .094	.2039 (1126) P= .000	.2151 (1127) P= .000	.1232 (1127) P= .000	.3227 (1126) P= .000	.4070 (1127) P= .000	.4178 (1128) P= .000	.1900 (1127) P= .000	.1096 (1125) P= .000	.0992 (1128) P= .000	.0247 (1127) P= .204
HT	.0857 (1122) P= .002	.0937 (1122) P= .001	.3515 (1123) P= .000	.3509 (1123) P= .000	.2792 (1122) P= .000	.2452 (1123) P= .000	.2720 (1124) P= .000	.3705 (1123) P= .000	.1967 (1121) P= .000	.1877 (1124) P= .000	.2938 (1123) P= .000
WT	.4276 (1126) P= .000	.5449 (1126) P= .000	.4987 (1127) P= .000	.8088 (1127) P= .000	.8297 (1126) P= .000	.8608 (1127) P= .000	.8585 (1128) P= .000	.8089 (1127) P= .000	.7088 (1125) P= .000	.7326 (1128) P= .000	.6637 (1127) P= .000
BIACD	-0.0053 (1126) P= .429	.0272 (1126) P= .181	.1856 (1127) P= .000	.2927 (1127) P= .000	.1243 (1126) P= .000	.1062 (1127) P= .000	.1036 (1128) P= .000	.1445 (1127) P= .000	-0.1135 (1125) P= .000	.0995 (1128) P= .000	.1493 (1127) P= .000
BIDELD	.2063 (1126) P= .000	.2004 (1126) P= .000	.2844 (1127) P= .000	.5939 (1127) P= .000	.4266 (1126) P= .000	.3866 (1127) P= .000	.3827 (1128) P= .000	.4469 (1127) P= .000	.2421 (1125) P= .000	.4092 (1128) P= .000	.3891 (1127) P= .000
IILIACD	.2019 (1124) P= .000	.1946 (1124) P= .000	.2054 (1125) P= .000	.2057 (1125) P= .000	.2604 (1124) P= .000	.2935 (1125) P= .000	.3234 (1126) P= .000	.3043 (1125) P= .000	-0.0478 (1123) P= .055	.0912 (1128) P= .001	.1042 (1125) P= .000
BITROD	.2144 (1126) P= .000	.1929 (1126) P= .000	.1729 (1127) P= .000	.1940 (1127) P= .000	.2055 (1126) P= .000	.2139 (1127) P= .000	.2420 (1128) P= .000	.3290 (1127) P= .000	-0.0276 (1125) P= .178	.1290 (1128) P= .000	.1433 (1127) P= .000
KNEED	.3006 (1126) P= .000	.2312 (1126) P= .000	.2490 (1127) P= .000	.4331 (1127) P= .000	.4076 (1126) P= .000	.3741 (1127) P= .000	.3707 (1128) P= .000	.4672 (1127) P= .000	.4959 (1125) P= .000	.3980 (1128) P= .000	.3796 (1127) P= .000
ANKLED	.0769 (1125) P= .005	.0441 (1125) P= .070	.2298 (1126) P= .000	.3033 (1126) P= .000	.2484 (1125) P= .000	.1975 (1126) P= .000	.1840 (1127) P= .000	.2776 (1126) P= .000	.2364 (1124) P= .000	.2416 (1127) P= .000	.3125 (1126) P= .000
CHSTD	.2009 (1124) P= .000	.2477 (1124) P= .000	.2700 (1125) P= .000	.4054 (1125) P= .000	.4538 (1124) P= .000	.4045 (1125) P= .000	.3967 (1126) P= .000	.3574 (1125) P= .000	.0834 (1123) P= .003	.2638 (1126) P= .000	.2638 (1125) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
AGE	.0601 (1127) P= .004	.1029 (1128) P= .000	.0994 (1128) P= .000	-0.0446 (1125) P= .067	.1869 (1126) P= .000	.0833 (1128) P= .003	1.0000 (1128) P= .000	.1575 (1124) P= .000	.2875 (1128) P= .000	.0611 (1128) P= .020	-0.0142 (1128) P= .316
HT	.4789 (1123) P= .000	.3832 (1124) P= .000	.3230 (1124) P= .000	.4151 (1121) P= .000	.2633 (1122) P= .000	.1873 (1124) P= .000	.1575 (1124) P= .000	1.0000 (1124) P= .000	.5394 (1124) P= .000	.4033 (1124) P= .000	.3678 (1124) P= .000
WT	.5887 (1127) P= .000	.6245 (1128) P= .000	.7480 (1128) P= .000	.5680 (1125) P= .000	.6743 (1126) P= .000	.7056 (1128) P= .000	.2875 (1128) P= .000	.5394 (1124) P= .000	1.0000 (1128) P= .000	.2720 (1128) P= .000	.5250 (1128) P= .000
BIACD	.2888 (1127) P= .000	.2188 (1128) P= .000	.1971 (1128) P= .000	.3124 (1125) P= .000	.0511 (1126) P= .043	.0978 (1128) P= .001	.0611 (1128) P= .020	.4033 (1124) P= .000	.2720 (1128) P= .000	1.0000 (1128) P= .000	.6801 (1128) P= .000
BIDELD	.4203 (1127) P= .000	.3810 (1128) P= .000	.4098 (1128) P= .000	.4361 (1125) P= .000	.2864 (1126) P= .000	.4069 (1128) P= .000	-0.0142 (1128) P= .316	.3678 (1124) P= .000	.5250 (1128) P= .000	.6801 (1128) P= .000	1.0000 (1128) P= .000
IILIACD	.2724 (1125) P= .000	.3003 (1126) P= .000	.2826 (1126) P= .000	.3893 (1123) P= .000	.0579 (1124) P= .028	.0730 (1126) P= .007	.2004 (1126) P= .000	.4312 (1122) P= .000	.3707 (1126) P= .000	.7130 (1126) P= .000	.5751 (1126) P= .000
BITROD	.3031 (1127) P= .000	.3348 (1128) P= .000	.2982 (1128) P= .000	.4186 (1125) P= .000	.0282 (1126) P= .190	.1093 (1128) P= .000	.1002 (1128) P= .000	.4126 (1124) P= .000	.3560 (1128) P= .000	.7329 (1128) P= .000	.5757 (1128) P= .000
KNEED	.4017 (1127) P= .000	.4543 (1128) P= .000	.4595 (1128) P= .000	.4393 (1125) P= .000	.3546 (1126) P= .000	.3731 (1128) P= .000	.0158 (1128) P= .298	.2988 (1124) P= .000	.4936 (1128) P= .000	.0766 (1128) P= .005	.3126 (1128) P= .000
ANKLED	.4466 (1126) P= .000	.3777 (1127) P= .000	.3567 (1127) P= .000	.4384 (1124) P= .000	.2331 (1125) P= .000	.2422 (1127) P= .000	.1029 (1127) P= .000	.4489 (1123) P= .000	.3979 (1127) P= .000	.2915 (1127) P= .000	.2697 (1127) P= .000
CHSTD	.3467 (1125) P= .000	.3421 (1126) P= .000	.3510 (1126) P= .000	.3736 (1123) P= .000	.2082 (1124) P= .000	.2591 (1126) P= .000	.1855 (1126) P= .000	.3366 (1122) P= .000	.4599 (1126) P= .000	.7174 (1126) P= .000	.6727 (1126) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	IILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
AGE	.2004 (1126) P= .000	.1002 (1128) P= .000	.0158 (1128) P= .298	.1029 (1127) P= .000	.1855 (1126) P= .000	.0950 (1125) P= .001	.1924 (1127) P= .000	-0.2717 (753) P= .000	-0.3812 (964) P= .000	-0.4691 (962) P= .000	-0.2317 (862) P= .000
HT	.4312 (1122) P= .000	.4126 (1124) P= .000	.2988 (1124) P= .000	.4489 (1123) P= .000	.3368 (1122) P= .000	.4187 (1121) P= .000	.4990 (1123) P= .000	.4864 (749) P= .000	-0.0212 (960) P= .256	-0.1543 (958) P= .000	.2685 (799) P= .000
WT	.3707 (1126) P= .000	.3566 (1128) P= .000	.4936 (1128) P= .000	.3979 (1127) P= .000	.4599 (1126) P= .000	.4363 (1125) P= .000	.5099 (1127) P= .000	.5618 (753) P= .000	-0.4427 (964) P= .000	-0.2481 (962) P= .000	.4112 (862) P= .000
BIACD	.7130 (1126) P= .000	.7329 (1128) P= .000	.0766 (1128) P= .005	.2915 (1127) P= .000	.7174 (1126) P= .000	.2868 (1125) P= .000	.4416 (1127) P= .000	.4151 (753) P= .000	.1367 (964) P= .000	-0.1158 (962) P= .000	.3648 (862) P= .000
BIDELD	.5751 (1126) P= .000	.5757 (1128) P= .000	.3126 (1128) P= .000	.2897 (1127) P= .000	.6727 (1126) P= .000	.3149 (1125) P= .000	.3979 (1127) P= .000	.4934 (753) P= .000	-0.0287 (964) P= .197	-0.0583 (962) P= .035	.4698 (862) P= .000
IILIACD	1.0000 (1126) P= .000	.8508 (1126) P= .000	.1257 (1126) P= .000	.3196 (1125) P= .000	.7516 (1124) P= .000	.3678 (1123) P= .000	.4388 (1125) P= .000	.3418 (752) P= .000	-0.0284 (963) P= .189	-0.1788 (961) P= .000	.2687 (860) P= .000
BITROD	.8508 (1126) P= .000	1.0000 (1128) P= .000	.1568 (1128) P= .000	.3388 (1127) P= .000	.7289 (1126) P= .000	.3275 (1125) P= .000	.4721 (1127) P= .000	.3615 (753) P= .000	-0.0013 (964) P= .484	-0.1248 (962) P= .000	.2976 (862) P= .000
KNEED	.1257 (1126) P= .000	.1568 (1128) P= .000	1.0000 (1128) P= .000	.3331 (1127) P= .000	.1442 (1126) P= .000	.3277 (1125) P= .000	.3861 (1127) P= .000	.3736 (753) P= .000	-0.1271 (964) P= .000	-0.0714 (962) P= .013	.2429 (862) P= .000
ANKLED	.3196 (1125) P= .000	.3388 (1127) P= .000	.3331 (1127) P= .000	1.0000 (1127) P= .000	.3275 (1125) P= .000	.3842 (1124) P= .000	.4631 (1126) P= .000	.4228 (752) P= .000	.0366 (963) P= .172	-0.1432 (961) P= .000	.3237 (861) P= .000
CHSTD	.7516 (1124) P= .000	.7289 (1126) P= .000	.1442 (1126) P= .000	.3275 (1126) P= .000	1.0000 (1126) P= .000	.2928 (1124) P= .000	.4025 (1125) P= .000	.4336 (751) P= .000	-0.0619 (962) P= .028	-0.1541 (960) P= .000	.4242 (860) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VC02	VEV02	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
AGE	-0.1387	-0.0802	-0.5148	.1399	-0.3113	-0.3448	.1284	.5585	-0.4425	.4416	.0259
	(753)	(753)	(753)	(753)	(753)	(753)	(1123)	(1000)	(1126)	(1128)	(1126)
	P= .000	P= .014	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .192
HT	.3408	.0271	.0067	-0.0885	.0634	-0.0006	.5464	.4795	-0.0271	.0273	.6278
	(749)	(749)	(749)	(749)	(749)	(749)	(1119)	(998)	(1122)	(1122)	(1122)
	P= .000	P= .229	P= .427	P= .008	P= .463	P= .494	P= .000	P= .000	P= .182	P= .181	P= .000
WT	.3915	-0.0688	-0.4482	-0.0968	-0.2644	-0.3587	.3386	.2326	-0.5451	.5469	.7861
	(753)	(753)	(753)	(753)	(753)	(753)	(1123)	(1000)	(1126)	(1126)	(1126)
	P= .000	P= .030	P= .000	P= .004	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
BIACD	.2199	.0023	.1903	-0.1778	.1518	.0577	.2898	.2892	.0295	-0.0364	.3448
	(753)	(753)	(753)	(753)	(753)	(753)	(1123)	(1000)	(1126)	(1126)	(1126)
	P= .000	P= .476	P= .000	P= .000	P= .000	P= .057	P= .000	P= .000	P= .162	P= .154	P= .000
BIDELD	.2950	-0.0271	-0.0329	-0.1562	.0166	-0.1103	.2668	.1273	-0.1567	.1578	.5043
	(753)	(753)	(753)	(753)	(753)	(753)	(1123)	(1000)	(1126)	(1126)	(1126)
	P= .000	P= .229	P= .184	P= .000	P= .330	P= .001	P= .000	P= .000	P= .000	P= .000	P= .000
IILIACD	.1826	.0053	.0363	-0.1401	.0136	-0.0363	.3503	.3642	-0.2277	.2264	.2759
	(752)	(752)	(752)	(752)	(752)	(752)	(1121)	(999)	(1124)	(1124)	(1124)
	P= .000	P= .442	P= .160	P= .000	P= .355	P= .147	P= .000	P= .000	P= .000	P= .000	P= .000
BITROD	.1894	.0175	.0578	-0.1569	.0408	-0.0192	.2918	.2946	-0.1579	.1568	.3667
	(753)	(753)	(753)	(753)	(753)	(753)	(1123)	(1000)	(1126)	(1126)	(1126)
	P= .000	P= .315	P= .056	P= .000	P= .132	P= .299	P= .000	P= .000	P= .000	P= .000	P= .000
KNEED	.2371	-0.0350	-0.1833	-0.0938	-0.1139	-0.1413	.1747	.0460	-0.1668	.1675	.4632
	(753)	(753)	(753)	(753)	(753)	(753)	(1123)	(1000)	(1126)	(1126)	(1126)
	P= .000	P= .169	P= .000	P= .005	P= .001	P= .000	P= .000	P= .073	P= .000	P= .000	P= .000
ANKLED	.2715	.0298	.0538	-0.0998	.0536	.0180	.3212	.2739	.0093	-0.0691	.4789
	(752)	(752)	(752)	(752)	(752)	(752)	(1122)	(999)	(1125)	(1125)	(1125)
	P= .000	P= .207	P= .070	P= .003	P= .071	P= .311	P= .000	P= .000	P= .377	P= .300	P= .000
CHSTD	.2564	.0064	.0017	-0.1419	.0346	-0.0776	.3354	.2998	-0.2578	.2571	.3614
	(751)	(751)	(751)	(751)	(751)	(751)	(1121)	(999)	(1124)	(1124)	(1124)
	P= .000	P= .430	P= .481	P= .000	P= .172	P= .017	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
AGE	.4238 (1126) P= .000	.2542 (1127) P= .000	.6138 (1126) P= .000	.2538 (1127) P= .000	.6044 (1123) P= .000	.2589 (1124) P= .000	-0.0007 (1124) P= .490	-0.1962 (1124) P= .000	-0.0729 (991) P= .011	-0.2451 (865) P= .000	.3226 (863) P= .000
HT	.2108 (1122) P= .000	.0720 (1123) P= .008	.1344 (1122) P= .000	.0725 (1123) P= .008	.1316 (1119) P= .000	.0697 (1124) P= .010	-0.3379 (1124) P= .000	.3114 (1124) P= .000	.1130 (987) P= .000	.0167 (861) P= .313	-0.0202 (859) P= .277
WT	.7724 (1126) P= .000	.6430 (1127) P= .000	.6067 (1126) P= .000	.6426 (1127) P= .000	.6048 (1123) P= .000	.6218 (1124) P= .000	.4083 (1124) P= .000	-0.5725 (1124) P= .000	-0.5000 (991) P= .000	-0.4808 (865) P= .000	.6406 (863) P= .000
BIACD	.0662 (1126) P= .013	.0858 (1127) P= .002	.1556 (1126) P= .000	.0838 (1127) P= .002	.1412 (1123) P= .000	.0969 (1124) P= .001	-0.0646 (1124) P= .015	.0417 (1124) P= .081	.0363 (991) P= .127	.0704 (865) P= .019	-0.0241 (863) P= .240
BIDELD	.3024 (1126) P= .000	.3018 (1127) P= .000	.2621 (1126) P= .000	.3011 (1127) P= .000	.2566 (1123) P= .000	.2992 (1124) P= .000	.2336 (1124) P= .000	-0.2395 (1124) P= .000	-0.2033 (991) P= .000	-0.1103 (865) P= .001	.2116 (863) P= .000
IILIACD	.2978 (1124) P= .000	.2451 (1125) P= .000	.3466 (1124) P= .000	.2412 (1125) P= .000	.3295 (1121) P= .000	.2585 (1122) P= .000	-0.0695 (1122) P= .010	-0.0261 (1122) P= .192	-0.1660 (989) P= .000	-0.2056 (865) P= .000	.2561 (863) P= .000
BITROD	.2363 (1126) P= .000	.2463 (1127) P= .000	.2973 (1126) P= .000	.2426 (1127) P= .000	.2827 (1123) P= .000	.2538 (1124) P= .000	-0.0273 (1124) P= .180	-0.0242 (1124) P= .209	-0.1218 (991) P= .000	-0.1235 (865) P= .000	.1792 (863) P= .000
KNEED	.3002 (1126) P= .000	.2558 (1127) P= .000	.1854 (1126) P= .000	.2557 (1127) P= .000	.1895 (1123) P= .000	.2356 (1124) P= .000	.5055 (1124) P= .000	-0.2510 (1124) P= .000	-0.2129 (991) P= .000	-0.1672 (865) P= .000	.2586 (863) P= .000
ANKLED	.1287 (1125) P= .000	.0259 (1126) P= .193	.0802 (1125) P= .004	.0242 (1126) P= .208	.0716 (1122) P= .008	.0257 (1123) P= .194	.1108 (1123) P= .000	-0.0427 (1123) P= .076	-0.0424 (990) P= .091	.0137 (864) P= .343	.0223 (862) P= .256
CHSTD	.3523 (1124) P= .000	.3121 (1125) P= .000	.3791 (1124) P= .000	.3102 (1125) P= .000	.3672 (1121) P= .000	.3175 (1122) P= .000	.0981 (1122) P= .000	-0.2186 (1122) P= .000	-0.2100 (989) P= .000	-0.1779 (864) P= .000	.2883 (862) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
AGE	.5198	.4127	-0.0749	.0202	.0084	-0.3228	-0.2353	.2080	-0.0067	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .000	P= .000	P= .110	P= .370	P= .445	P= .000	P= .000	P= .000	P= .458	P= .	P= .
HT	.0154	.1455	-0.0234	.0067	.0378	.0777	-0.2353	-0.0088	-0.0509	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .400	P= .008	P= .351	P= .457	P= .268	P= .108	P= .000	P= .445	P= .209	P= .	P= .
WT	.1014	.0679	.0513	-0.0911	.0697	-0.1326	-0.2977	.2287	-0.1770	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .048	P= .133	P= .200	P= .067	P= .127	P= .017	P= .000	P= .000	P= .002	P= .	P= .
BIACD	-0.0070	-0.0797	.1273	-0.1330	.0006	.0107	.0448	-0.1239	.0591	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .455	P= .095	P= .018	P= .014	P= .496	P= .433	P= .238	P= .024	P= .173	P= .	P= .
BIDELD	.0295	-0.1055	.0862	-0.1456	.0251	-0.0586	.0226	-0.0502	-0.0261	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .315	P= .042	P= .079	P= .008	P= .341	P= .176	P= .360	P= .213	P= .339	P= .	P= .
IILIACD	.0628	-0.0362	.0882	-0.1158	-0.0151	-0.0575	-0.0484	-0.0079	-0.0469	.	.
	(270)	(270)	(269)	(270)	(269)	(254)	(254)	(253)	(255)	(270)	(270)
	P= .152	P= .277	P= .075	P= .029	P= .403	P= .181	P= .221	P= .451	P= .228	P= .	P= .
BITROD	.0932	-0.0674	.0994	-0.2034	.0056	-0.0192	-0.0408	-0.0257	-0.0131	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .063	P= .135	P= .052	P= .000	P= .464	P= .380	P= .258	P= .342	P= .417	P= .	P= .
KNEED	.0323	.1127	.0150	-0.1550	-0.1299	-0.0703	-0.1231	.1641	-0.0900	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .298	P= .032	P= .403	P= .005	P= .016	P= .132	P= .025	P= .004	P= .075	P= .	P= .
ANKLED	-0.0493	-0.0328	.0805	-0.0528	.0344	.1097	-0.0118	-0.1585	.0838	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .210	P= .296	P= .094	P= .193	P= .287	P= .040	P= .426	P= .006	P= .091	P= .	P= .
CHSTD	-0.0074	-0.1967	.1129	-0.1838	-0.0033	-0.0121	.0559	-0.0851	-0.0019	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .452	P= .001	P= .032	P= .001	P= .479	P= .424	P= .187	P= .088	P= .488	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
AGE	-0.0590	.1810	.2222	.1471	.0812	.0685	.0141	.0081	.1104	.0281	.0530
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .166	P= .001	P= .000	P= .008	P= .091	P= .131	P= .409	P= .447	P= .035	P= .322	P= .193
HT	-0.1820	-0.0414	-0.0995	-0.0878	-0.0239	-0.1146	-0.0953	-0.0696	-0.0470	-0.0360	-0.1180
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .001	P= .249	P= .051	P= .075	P= .348	P= .030	P= .059	P= .127	P= .221	P= .278	P= .026
WT	-0.0792	.4139	.3315	.5403	.5722	.4573	.4567	.4188	.4568	.4442	.2020
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .097	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
BIACD	.0130	.0709	-0.1480	.1248	.1885	.1457	.3392	.3359	.1770	.1688	.0107
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .416	P= .122	P= .007	P= .020	P= .001	P= .008	P= .000	P= .000	P= .002	P= .003	P= .431
BIDELD	.0331	.2955	.0454	.3554	.3853	.4010	.5174	.4630	.3108	.3385	.0752
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .294	P= .000	P= .228	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .108
IILIACD	-0.0941	.2752	-0.0100	.2594	.3324	.3729	.4999	.4399	.3147	.3448	.0548
	(270)	(270)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(270)	(270)
	P= .061	P= .000	P= .435	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .185
BITROD	-0.0847	.2666	-0.0040	.3093	.3970	.3995	.5148	.4691	.3211	.4119	.0771
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .082	P= .000	P= .474	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .103
KNEED	.0287	.2381	.1119	.3262	.4139	.3108	.2928	.2382	.2431	.3329	.2137
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .319	P= .000	P= .033	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ANKLED	-0.0667	-0.0514	-0.1159	-0.0581	-0.0035	-0.0675	.0212	.0102	-0.0451	-0.0047	-0.0471
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .137	P= .199	P= .028	P= .171	P= .477	P= .134	P= .364	P= .434	P= .238	P= .470	P= .220
CHSTD	-0.0025	.2176	-0.0390	.2462	.3227	.3234	.4900	.4491	.2730	.3166	.0825
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .484	P= .000	P= .261	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .088

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
AGE	.0179	.1715	-0.0300	.1155	.2875	.2238	.2029	.1894	.0149	.1301	.0275
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .385	P= .002	P= .312	P= .029	P= .000	P= .000	P= .000	P= .001	P= .403	P= .016	P= .326
HT	.0555	-0.0407	.2449	.2865	.1854	.1513	.1848	.2611	.1479	.1286	.2491
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .182	P= .252	P= .000	P= .000	P= .001	P= .006	P= .001	P= .000	P= .007	P= .017	P= .000
WT	.5147	.4509	.2224	.7278	.7194	.7517	.7687	.8630	.6965	.7848	.6660
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
BIACD	.1728	.0450	.1994	.3911	.1716	.1473	.2935	.2198	-0.0275	.2522	.1871
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .002	P= .230	P= .000	P= .000	P= .002	P= .008	P= .000	P= .000	P= .326	P= .000	P= .001
BIDELD	.3498	.2585	.1532	.5728	.3822	.3857	.4982	.4307	.2095	.5111	.3749
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .006	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
IILIACD	.3405	.2363	.0874	.2475	.2174	.2547	.4312	.3451	.0396	.3017	.1163
	(270)	(270)	(269)	(269)	(269)	(269)	(269)	(269)	(270)	(270)	(270)
	P= .000	P= .000	P= .135	P= .000	P= .000	P= .000	P= .000	P= .000	P= .258	P= .000	P= .029
BITROD	.4278	.2054	.1128	.2953	.2542	.2784	.4711	.4371	.1469	.3589	.1960
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .032	P= .000	P= .000	P= .000	P= .000	P= .000	P= .008	P= .000	P= .001
KNEED	.4152	.2514	.1429	.3639	.3671	.3833	.3793	.4889	.4012	.5024	.4232
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .009	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ANKLED	.0847	-0.0610	.1853	.2779	.2222	.1905	.2397	.2710	.0404	.1693	.3092
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .082	P= .159	P= .001	P= .000	P= .000	P= .001	P= .000	P= .000	P= .254	P= .003	P= .000
CHSTD	.3338	.1700	.1273	.3412	.3048	.2682	.4125	.2985	.0880	.3483	.2571
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .003	P= .018	P= .000	P= .000	P= .000	P= .000	P= .000	P= .074	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
AGE	-0.0123	.1429	.0626	-0.0133	.0695	.1615	1.0000	.0669	.1755	-0.0268	-0.0413
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .420	P= .009	P= .152	P= .414	P= .127	P= .004	P= .000	P= .136	P= .002	P= .335	P= .249
HT	.2101	.3548	.2407	.3427	.2487	.1721	.0669	1.0000	.4917	.2971	.1853
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .136	P= .000	P= .000	P= .000	P= .001
WT	.2337	.6803	.7137	.6188	.5222	.7323	.1755	.4917	1.0000	.3227	.5144
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .000	P= .000	P= .000	P= .000
BIACD	.2947	.1541	.1899	.3308	.1184	.2534	-0.0268	.2971	.3227	1.0000	.8018
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .006	P= .001	P= .000	P= .026	P= .000	P= .335	P= .000	P= .000	P= .000	P= .000
BIDELD	.2608	.3296	.3530	.4175	.1962	.4711	-0.0413	.1853	.5144	.8018	1.0000
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .001	P= .000	P= .249	P= .001	P= .000	P= .000	P= .000
IILIACD	.2123	.2422	.2870	.3737	.0407	.2601	.0198	.1854	.3473	.6796	.6849
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .000	P= .000	P= .000	P= .000	P= .253	P= .000	P= .373	P= .001	P= .000	P= .000	P= .000
BITROD	.2583	.3479	.3349	.4310	.0462	.3121	.0300	.2389	.4352	.7423	.7696
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .225	P= .000	P= .311	P= .000	P= .000	P= .000	P= .000
KNEED	.1805	.5716	.4828	.4781	.1549	.4167	.1472	.2647	.5514	.2188	.3838
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .001	P= .000	P= .000	P= .000	P= .005	P= .000	P= .008	P= .000	P= .000	P= .000	P= .000
ANKLED	.3114	.2851	.2974	.5656	.1938	.1527	.0338	.4498	.3854	.4983	.3779
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .001	P= .008	P= .290	P= .000	P= .000	P= .000	P= .000
CHSTD	.2393	.2359	.2943	.3623	.0882	.3318	-0.0921	.1688	.3398	.7568	.7822
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .000	P= .000	P= .074	P= .000	P= .065	P= .037	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
AGE	.0198 (270) P= .373	.0300 (271) P= .311	.1472 (271) P= .008	.0338 (271) P= .290	-0.0921 (271) P= .065	.0817 (271) P= .090	.1071 (270) P= .040	-0.0271 (237) P= .339	-0.2447 (238) P= .000	-0.3731 (238) P= .000	-0.0643 (243) P= .159
HT	.1854 (270) P= .001	.2309 (271) P= .000	.2647 (271) P= .000	.4498 (271) P= .000	.1088 (271) P= .037	.2728 (271) P= .000	.3968 (270) P= .000	.5267 (237) P= .000	-0.0179 (238) P= .397	.0136 (238) P= .421	.1889 (243) P= .002
WT	.3473 (270) P= .000	.4352 (271) P= .000	.5514 (271) P= .000	.3854 (271) P= .000	.3399 (271) P= .000	.2531 (271) P= .000	.4202 (270) P= .000	.6285 (237) P= .000	-0.4270 (238) P= .000	-0.0714 (238) P= .136	.2884 (243) P= .000
BIACD	.6796 (270) P= .000	.7423 (271) P= .000	.2108 (271) P= .000	.4983 (271) P= .000	.7560 (271) P= .000	.2516 (271) P= .000	.4367 (270) P= .000	.4053 (237) P= .000	.0393 (238) P= .273	-0.0030 (238) P= .482	.2598 (243) P= .000
BIDELD	.6849 (270) P= .000	.7596 (271) P= .000	.3828 (271) P= .000	.3779 (271) P= .000	.7822 (271) P= .000	.1919 (271) P= .001	.4078 (270) P= .000	.4861 (237) P= .000	-0.0590 (238) P= .182	-0.0053 (238) P= .449	.3831 (243) P= .000
IILIACD	1.0000 (270) P= .000	.8276 (270) P= .000	.3459 (270) P= .000	.3409 (270) P= .000	.7161 (270) P= .000	.1899 (270) P= .001	.3235 (269) P= .000	.3688 (236) P= .000	-0.0818 (237) P= .105	.0815 (237) P= .491	.1174 (242) P= .034
BITROD	.8276 (270) P= .000	1.0000 (271) P= .000	.3857 (271) P= .000	.3993 (271) P= .000	.7756 (271) P= .000	.1708 (271) P= .002	.3924 (270) P= .000	.3598 (237) P= .000	-0.1242 (238) P= .028	-0.0183 (238) P= .389	.1564 (243) P= .009
KNEED	.3459 (270) P= .000	.3857 (271) P= .000	1.0000 (271) P= .000	.2920 (271) P= .000	.2179 (271) P= .000	.3228 (271) P= .000	.3788 (270) P= .000	.3428 (237) P= .000	-0.2419 (238) P= .000	.0108 (238) P= .434	.1345 (243) P= .018
ANKLED	.3409 (270) P= .000	.3993 (271) P= .000	.2920 (271) P= .000	1.0000 (271) P= .000	.3816 (271) P= .000	.2751 (271) P= .000	.5284 (270) P= .000	.4831 (237) P= .000	.0665 (238) P= .153	-0.0360 (238) P= .290	.2881 (243) P= .001
CHSTD	.7161 (270) P= .000	.7756 (271) P= .000	.2179 (271) P= .000	.3816 (271) P= .000	1.0000 (271) P= .000	.0956 (271) P= .051	.2707 (270) P= .000	.3324 (237) P= .000	-0.0486 (238) P= .228	-0.0033 (238) P= .480	.2746 (243) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLRM
AGE	-0.0883 (237) P= .088	.0394 (237) P= .273	-0.1643 (237) P= .006	-0.0729 (237) P= .132	.0718 (237) P= .136	-0.2046 (237) P= .001	.1320 (265) P= .016	.3338 (260) P= .000	-0.2071 (266) P= .000	.2104 (266) P= .000	.0410 (266) P= .253
HT	.3611 (237) P= .000	.0371 (237) P= .285	.0089 (237) P= .446	-0.0952 (237) P= .072	.1011 (237) P= .060	.0373 (237) P= .284	.4002 (265) P= .000	.5040 (260) P= .000	.1397 (266) P= .011	-0.1399 (266) P= .011	.6589 (266) P= .000
WT	.4007 (237) P= .000	.0003 (237) P= .498	-0.3547 (237) P= .000	-0.1635 (237) P= .006	-0.1824 (237) P= .002	-0.2599 (237) P= .000	.3677 (265) P= .000	.1314 (260) P= .017	-0.5424 (266) P= .000	.5458 (266) P= .000	.7575 (266) P= .000
BIACD	.1604 (237) P= .007	-0.0148 (237) P= .410	.0401 (237) P= .269	-0.2310 (237) P= .000	.0591 (237) P= .183	-0.1132 (237) P= .041	.1456 (265) P= .009	.0929 (260) P= .068	.0188 (266) P= .380	-0.0151 (266) P= .403	.3758 (266) P= .000
BIDELD	.2105 (237) P= .001	-0.0246 (237) P= .353	-0.0525 (237) P= .211	-0.2527 (237) P= .000	-0.0385 (237) P= .288	-0.1578 (237) P= .008	.1652 (265) P= .004	-0.0141 (260) P= .410	-0.2306 (266) P= .000	.2350 (266) P= .000	.4123 (266) P= .000
IILIACD	.1092 (236) P= .047	.0117 (236) P= .429	-0.0424 (236) P= .258	-0.1825 (236) P= .002	-0.0570 (236) P= .192	-0.1347 (236) P= .019	.1308 (264) P= .017	.0524 (259) P= .201	-0.2463 (265) P= .000	.2501 (265) P= .000	.2069 (265) P= .000
BITROD	.1188 (237) P= .036	.0348 (237) P= .297	-0.0694 (237) P= .144	-0.2266 (237) P= .000	-0.0270 (237) P= .340	-0.2017 (237) P= .001	.1232 (265) P= .023	.0622 (260) P= .159	-0.2619 (266) P= .000	.2650 (266) P= .000	.2917 (266) P= .000
KNEED	.2059 (237) P= .001	.1322 (237) P= .021	-0.1385 (237) P= .017	-0.1000 (237) P= .062	-0.1373 (237) P= .017	-0.1610 (237) P= .007	.1932 (265) P= .001	.1159 (260) P= .031	-0.2761 (266) P= .000	.2802 (266) P= .000	.4363 (266) P= .000
ANKLED	.3157 (237) P= .000	.0164 (237) P= .401	.0677 (237) P= .150	-0.0953 (237) P= .072	.0507 (237) P= .218	.0335 (237) P= .304	.3200 (265) P= .000	.2408 (260) P= .000	.0980 (266) P= .055	-0.0959 (266) P= .059	.5240 (266) P= .000
CHSTD	.0705 (237) P= .140	-0.0473 (237) P= .234	-0.0421 (237) P= .259	-0.2523 (237) P= .000	-0.0169 (237) P= .398	-0.2104 (237) P= .001	.1692 (265) P= .003	-0.0294 (260) P= .319	-0.1591 (266) P= .005	.1632 (266) P= .004	.2598 (266) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
AGE	.2229	.0988	.1670	.0992	.1758	.0716	.0898	-0.0818	-0.1467	-0.2302	.2104
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .052	P= .003	P= .052	P= .002	P= .120	P= .070	P= .090	P= .012	P= .000	P= .001
HT	.1004	-0.0684	-0.0520	-0.0683	-0.0274	-0.0567	-0.4022	.3802	.0678	.1372	-0.2214
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .051	P= .131	P= .197	P= .131	P= .327	P= .176	P= .000	P= .000	P= .148	P= .021	P= .001
WT	.8119	.5813	.5688	.5824	.5769	.5725	.4026	-0.5576	-0.4889	-0.5360	.6332
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
BIACD	.1248	.2442	.2104	.2460	.2579	.2562	.0654	-0.0709	-0.1317	-0.1230	.0649
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .021	P= .000	P= .000	P= .000	P= .000	P= .000	P= .142	P= .122	P= .021	P= .035	P= .171
BIDELD	.3817	.4595	.4198	.4598	.4615	.4573	.3242	-0.3535	-0.3333	-0.3091	.3385
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ILLIACD	.3282	.4031	.3650	.4009	.3824	.3903	.1991	-0.1477	-0.2672	-0.3293	.3038
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .008	P= .000	P= .000	P= .000
BITROD	.3731	.4435	.4158	.4422	.4275	.4441	.2146	-0.2160	-0.2916	-0.3543	.3324
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
KNEED	.4323	.3614	.3414	.3547	.3384	.3403	.5449	-0.2826	-0.2878	-0.3147	.3841
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ANKLED	.0864	-0.0234	-0.0378	-0.0257	-0.0107	-0.0203	.0272	.0048	-0.0424	-0.0146	.0058
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .080	P= .351	P= .268	P= .337	P= .431	P= .370	P= .328	P= .468	P= .257	P= .415	P= .466
CHSTD	.2638	.3891	.3465	.3897	.3793	.3930	.2230	-0.2406	-0.2604	-0.2789	.2801
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
ELBOWD	.0903	.0887	-0.0315	-0.0865	.0299	-0.1056	-0.0664	.0830	-0.0245	.	.
	(1123)	(1125)	(1109)	(1114)	(1106)	(1012)	(1012)	(1005)	(830)	(1125)	(1125)
	P= .001	P= .001	P= .147	P= .002	P= .160	P= .000	P= .017	P= .004	P= .241	P= .	P= .
WRISTD	.1693	.1752	-0.0251	-0.0556	.1252	-0.0765	-0.0918	.0879	-0.0430	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1013)	(1013)	(1006)	(832)	(1127)	(1127)
	P= .000	P= .000	P= .201	P= .032	P= .000	P= .007	P= .002	P= .003	P= .108	P= .	P= .
VO2LMIN	-0.2377	-0.0692	-0.0447	-0.0810	-0.0418	.1919	.2328	-0.2805	.2005	.	.
	(751)	(753)	(751)	(752)	(741)	(701)	(703)	(696)	(708)	(753)	(753)
	P= .000	P= .029	P= .111	P= .013	P= .128	P= .000	P= .000	P= .000	P= .000	P= .	P= .
VO2MLKG	-0.3758	-0.2162	-0.0850	-0.1321	-0.1266	.4101	.4155	-0.6450	.4913	.	.
	(962)	(964)	(949)	(953)	(948)	(874)	(873)	(866)	(713)	(964)	(964)
	P= .000	P= .000	P= .004	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
HR	-0.4348	-0.3936	-0.0014	.0164	-0.2555	.2143	.2674	-0.2312	.1086	.	.
	(960)	(962)	(947)	(951)	(948)	(872)	(871)	(864)	(711)	(962)	(962)
	P= .000	P= .000	P= .483	P= .307	P= .000	P= .000	P= .000	P= .000	P= .002	P= .	P= .
DYLIFT	-0.1987	-0.1175	-0.0462	-0.1527	-0.0818	.2245	.2860	-0.1358	.1982	.	.
	(800)	(802)	(800)	(801)	(789)	(743)	(747)	(737)	(750)	(802)	(802)
	P= .000	P= .000	P= .096	P= .000	P= .011	P= .000	P= .000	P= .000	P= .000	P= .	P= .
VE	-0.1053	-0.0138	-0.0850	-0.0936	.0140	.0307	.0562	-0.1124	.0376	.	.
	(751)	(753)	(751)	(752)	(741)	(701)	(703)	(696)	(708)	(753)	(753)
	P= .002	P= .353	P= .010	P= .005	P= .351	P= .209	P= .068	P= .001	P= .159	P= .	P= .
R	-0.0577	-0.1044	-0.0431	-0.1028	-0.0278	-0.0051	-0.0074	-0.1220	.0040	.	.
	(751)	(753)	(751)	(752)	(741)	(701)	(703)	(696)	(708)	(753)	(753)
	P= .057	P= .002	P= .119	P= .002	P= .225	P= .446	P= .422	P= .001	P= .457	P= .	P= .
VCO2	-0.4437	-0.2955	-0.0937	-0.1802	-0.1723	.4033	.3986	-0.6307	.4385	.	.
	(751)	(753)	(751)	(752)	(741)	(701)	(703)	(696)	(708)	(753)	(753)
	P= .000	P= .000	P= .005	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
VEVO2	.1469	.0687	-0.0817	-0.0195	.0760	-0.1862	-0.1851	.1773	-0.1804	.	.
	(751)	(753)	(751)	(752)	(741)	(701)	(703)	(696)	(708)	(753)	(753)
	P= .000	P= .030	P= .013	P= .296	P= .019	P= .000	P= .000	P= .000	P= .000	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
ELBOWD	-0.2147 (1125) P= .000	.1138 (1124) P= .000	.0848 (1124) P= .002	.1012 (1124) P= .000	.1416 (1124) P= .000	.1305 (1124) P= .000	.1287 (1124) P= .000	.0967 (1124) P= .001	.1326 (1124) P= .000	.0965 (1123) P= .001	.1088 (1124) P= .000
WRISTD	-0.1724 (1127) P= .000	.2111 (1126) P= .000	.1687 (1126) P= .000	.1831 (1126) P= .000	.1844 (1126) P= .000	.2177 (1126) P= .000	.2236 (1126) P= .000	.2105 (1126) P= .000	.2001 (1126) P= .000	.1648 (1125) P= .000	.1233 (1126) P= .000
VO2LMIN	-0.1358 (753) P= .000	-0.0302 (753) P= .204	.0551 (753) P= .086	.0606 (753) P= .048	.1036 (753) P= .002	.0995 (753) P= .003	.1445 (753) P= .000	.1250 (753) P= .000	.0711 (753) P= .026	.0688 (752) P= .030	.1577 (753) P= .000
VO2MLKG	-0.0241 (964) P= .227	-0.4688 (963) P= .000	-0.5408 (963) P= .000	-0.5651 (963) P= .000	-0.4252 (963) P= .000	-0.5422 (963) P= .000	-0.5038 (963) P= .000	-0.4883 (963) P= .000	-0.5711 (963) P= .000	-0.3950 (962) P= .000	-0.1873 (963) P= .000
HR	.1279 (962) P= .000	-0.2492 (961) P= .000	-0.2312 (961) P= .000	-0.1451 (961) P= .000	-0.0276 (961) P= .196	-0.1483 (961) P= .000	-0.1199 (961) P= .000	-0.1159 (961) P= .000	-0.1710 (961) P= .000	-0.0830 (960) P= .005	-0.0084 (961) P= .397
DYLIFT	-0.0549 (802) P= .060	-0.0854 (802) P= .008	-0.0699 (802) P= .024	-0.0107 (802) P= .381	.0127 (802) P= .359	.0362 (802) P= .153	.0873 (802) P= .007	.0775 (802) P= .014	.0308 (802) P= .192	-0.0360 (801) P= .154	.0708 (802) P= .022
VE	-0.1375 (753) P= .000	.0035 (753) P= .462	.0758 (753) P= .019	.0553 (753) P= .065	.0653 (753) P= .037	.0696 (753) P= .028	.0886 (753) P= .008	.0841 (753) P= .011	.0458 (753) P= .105	.0499 (752) P= .088	.0597 (753) P= .051
R	-0.0463 (753) P= .102	-0.0349 (753) P= .170	-0.0794 (753) P= .015	-0.1042 (753) P= .002	-0.0495 (753) P= .087	-0.0645 (753) P= .038	-0.0751 (753) P= .020	-0.0757 (753) P= .019	-0.1133 (753) P= .001	-0.0408 (752) P= .132	-0.0411 (753) P= .130
VCO2	-0.0306 (753) P= .201	-0.4543 (753) P= .000	-0.5466 (753) P= .000	-0.5402 (753) P= .000	-0.3881 (753) P= .000	-0.5198 (753) P= .000	-0.4699 (753) P= .000	-0.4578 (753) P= .000	-0.5702 (753) P= .000	-0.3831 (752) P= .000	-0.2197 (753) P= .000
VEVO2	-0.0383 (753) P= .147	.0465 (753) P= .101	.0453 (753) P= .107	.0057 (753) P= .438	-0.0290 (753) P= .213	-0.0107 (753) P= .385	-0.0368 (753) P= .156	-0.0207 (753) P= .286	-0.0078 (753) P= .415	-0.0024 (752) P= .474	-0.0957 (753) P= .004

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
ELBOWD	.1198 (1123) P= .000	.1157 (1123) P= .000	.2507 (1124) P= .000	.3472 (1124) P= .000	.3135 (1123) P= .000	.2639 (1124) P= .000	.2857 (1125) P= .000	.3474 (1124) P= .000	.2324 (1122) P= .000	.2799 (1125) P= .000	.3443 (1124) P= .000
WRISTD	.1235 (1125) P= .000	.1746 (1125) P= .000	.2701 (1126) P= .000	.4239 (1126) P= .000	.3518 (1125) P= .000	.3138 (1126) P= .000	.3214 (1127) P= .000	.3634 (1126) P= .000	.2149 (1124) P= .000	.3517 (1127) P= .000	.4032 (1126) P= .000
VO2LMIN	.1304 (753) P= .000	.0945 (752) P= .005	.3444 (752) P= .000	.5106 (752) P= .000	.4277 (751) P= .000	.3187 (752) P= .000	.2997 (753) P= .000	.4397 (752) P= .000	.4174 (751) P= .000	.4410 (753) P= .000	.4815 (752) P= .000
VO2MLKG	-0.3430 (963) P= .000	-0.4695 (962) P= .000	-0.1730 (963) P= .000	-0.3307 (963) P= .000	-0.4120 (962) P= .000	-0.5616 (963) P= .000	-0.5665 (964) P= .000	-0.4606 (963) P= .000	-0.3642 (962) P= .000	-0.3253 (964) P= .000	-0.2305 (963) P= .000
HR	.0463 (961) P= .076	-0.1460 (960) P= .000	-0.1951 (961) P= .000	-0.1166 (961) P= .000	-0.2024 (960) P= .000	-0.2407 (961) P= .000	-0.2596 (962) P= .000	-0.1384 (961) P= .000	-0.0986 (960) P= .001	-0.0924 (962) P= .002	-0.0722 (961) P= .013
DYLIFT	.0371 (801) P= .147	-0.0202 (801) P= .284	.2375 (801) P= .000	.4796 (801) P= .000	.3152 (800) P= .000	.1978 (801) P= .000	.1626 (802) P= .000	.2901 (801) P= .000	.3348 (800) P= .000	.5040 (802) P= .000	.5257 (801) P= .000
VE	.1055 (753) P= .002	.0464 (752) P= .102	.2529 (752) P= .000	.3412 (752) P= .000	.3347 (751) P= .000	.2458 (752) P= .000	.2283 (753) P= .000	.3101 (752) P= .000	.2878 (751) P= .000	.2731 (753) P= .000	.3127 (752) P= .000
R	-0.0557 (753) P= .063	-0.0838 (752) P= .011	.0032 (752) P= .465	-0.0767 (752) P= .018	-0.0450 (751) P= .109	-0.0845 (752) P= .010	-0.0695 (753) P= .028	-0.0398 (752) P= .138	-0.0606 (751) P= .048	-0.0879 (753) P= .008	-0.0311 (752) P= .197
VCO2	-0.3346 (753) P= .000	-0.4357 (752) P= .000	-0.1660 (752) P= .000	-0.3512 (752) P= .000	-0.4175 (751) P= .000	-0.5455 (752) P= .000	-0.5536 (753) P= .000	-0.4521 (752) P= .000	-0.3554 (751) P= .000	-0.3560 (753) P= .000	-0.2351 (752) P= .000
VEVO2	.0000 (753) P= .500	-0.0370 (752) P= .156	-0.0449 (752) P= .109	-0.1070 (752) P= .002	-0.0242 (751) P= .254	-0.0162 (752) P= .329	-0.0203 (753) P= .289	-0.0742 (752) P= .021	-0.0767 (751) P= .018	-0.1169 (753) P= .001	-0.1078 (752) P= .002

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
ELBOWD	.4452 (1124) P= .000	.3424 (1125) P= .000	.3598 (1125) P= .000	.3581 (1122) P= .000	.2847 (1123) P= .000	.2959 (1125) P= .000	.0950 (1125) P= .001	.4187 (1121) P= .000	.4363 (1125) P= .000	.2868 (1125) P= .000	.3149 (1125) P= .000
WRISTD	.6313 (1126) P= .000	.3867 (1127) P= .000	.4041 (1127) P= .000	.4409 (1124) P= .000	.3313 (1125) P= .000	.3439 (1127) P= .000	.1924 (1127) P= .000	.4990 (1123) P= .000	.5099 (1127) P= .000	.4416 (1127) P= .000	.3979 (1127) P= .000
VO2LMIN	.4864 (752) P= .000	.4354 (753) P= .000	.5017 (753) P= .000	.5251 (752) P= .000	.3789 (751) P= .000	.4487 (753) P= .000	-0.2717 (753) P= .000	.4864 (749) P= .000	.5618 (753) P= .000	.4151 (753) P= .000	.4934 (753) P= .000
VO2MLKG	-0.1634 (963) P= .000	-0.1993 (964) P= .000	-0.2752 (964) P= .000	-0.0540 (962) P= .047	-0.3267 (962) P= .000	-0.2918 (964) P= .000	-0.3812 (964) P= .000	-0.0212 (960) P= .255	-0.4427 (964) P= .000	.1397 (964) P= .000	-0.0287 (964) P= .187
HR	-0.1115 (961) P= .000	-0.1092 (962) P= .000	-0.1580 (962) P= .000	-0.0614 (960) P= .029	-0.1938 (960) P= .000	-0.0790 (962) P= .007	-0.4691. (962) P= .000	-0.1543 (958) P= .000	-0.2481 (962) P= .000	-0.1158 (962) P= .000	-0.0583 (962) P= .035
DYLIFT	.4222 (801) P= .000	.3237 (802) P= .000	.3953 (802) P= .000	.3693 (801) P= .000	.3248 (800) P= .000	.5362 (802) P= .000	-0.2317 (802) P= .000	.2685 (799) P= .000	.4112 (802) P= .000	.3648 (802) P= .000	.4698 (802) P= .000
VE	.3433 (752) P= .000	.2818 (753) P= .000	.3423 (753) P= .000	.3276 (752) P= .000	.3007 (751) P= .000	.2935 (753) P= .000	-0.1387 (753) P= .000	.3408 (749) P= .000	.3915 (753) P= .000	.2199 (753) P= .000	.2950 (753) P= .000
R	.0303 (752) P= .203	-0.0484 (753) P= .092	.0071 (753) P= .422	.0123 (752) P= .368	-0.0407 (751) P= .133	-0.0719 (753) P= .024	-0.0802 (753) P= .014	.0271 (749) P= .229	-0.0688 (753) P= .030	.0023 (753) P= .475	-0.0271 (753) P= .229
VCO2	-0.1484 (752) P= .000	-0.2084 (753) P= .000	-0.2675 (753) P= .000	-0.0544 (752) P= .068	-0.3209 (751) P= .000	-0.3171 (753) P= .000	-0.5148 (753) P= .000	.0067 (749) P= .427	-0.4482 (753) P= .000	.1903 (753) P= .000	-0.0329 (753) P= .184
VEVO2	-0.0771 (752) P= .017	-0.1063 (753) P= .002	-0.0948 (753) P= .005	-0.1546 (752) P= .000	-0.0162 (751) P= .329	-0.0996 (753) P= .003	.1399 (753) P= .000	-0.0885 (749) P= .008	-0.0968 (753) P= .004	-0.1778 (753) P= .000	-0.1562 (753) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
ELBOWD	.3078 (1123) P= .000	.3275 (1125) P= .000	.3277 (1125) P= .000	.3642 (1124) P= .000	.2928 (1124) P= .000	1.0000 (1125) P= .000	.5019 (1124) P= .000	.3712 (750) P= .000	-0.0773 (961) P= .008	-0.1445 (959) P= .000	.3354 (799) P= .000
WRISTD	.4388 (1125) P= .000	.4721 (1127) P= .000	.3081 (1127) P= .000	.4531 (1126) P= .000	.4025 (1125) P= .000	.5019 (1124) P= .000	1.0000 (1127) P= .000	.4323 (752) P= .000	-0.0944 (963) P= .002	-0.1727 (961) P= .000	.4082 (801) P= .000
VO2LMIN	.3418 (752) P= .000	.3815 (753) P= .000	.3730 (753) P= .000	.4228 (752) P= .000	.4336 (751) P= .000	.3712 (750) P= .000	.4323 (752) P= .000	1.0000 (753) P= .000	.4284 (753) P= .000	.0458 (751) P= .105	.5349 (742) P= .000
VO2MLKG	-0.0284 (963) P= .189	-0.0013 (964) P= .484	-0.1271 (964) P= .000	.0306 (963) P= .172	-0.0619 (962) P= .028	-0.0773 (961) P= .008	-0.0944 (963) P= .002	.4284 (753) P= .000	1.0000 (964) P= .000	.2687 (962) P= .000	.0722 (742) P= .025
HR	-0.1708 (961) P= .000	-0.1240 (962) P= .000	-0.0714 (962) P= .013	-0.1432 (961) P= .000	-0.1541 (960) P= .000	-0.1445 (959) P= .000	-0.1727 (961) P= .000	.0458 (751) P= .105	.2687 (962) P= .000	1.0000 (962) P= .000	.0533 (746) P= .074
DYLIFT	.2607 (800) P= .000	.2976 (802) P= .000	.2429 (802) P= .000	.3237 (801) P= .000	.4242 (800) P= .000	.3354 (799) P= .000	.4082 (801) P= .000	.5349 (742) P= .000	.0722 (742) P= .025	.0533 (746) P= .074	1.0000 (802) P= .000
VE	.1826 (752) P= .000	.1894 (753) P= .000	.2371 (753) P= .000	.2715 (752) P= .000	.2564 (751) P= .000	.2617 (750) P= .000	.2625 (752) P= .000	.6642 (753) P= .000	.2620 (753) P= .000	.0676 (751) P= .032	.3195 (742) P= .000
R	.0053 (752) P= .442	.0175 (753) P= .315	-0.0350 (753) P= .169	.0298 (752) P= .207	.0064 (751) P= .430	-0.0094 (750) P= .399	.0058 (752) P= .437	.0455 (753) P= .106	.1102 (753) P= .001	.1306 (751) P= .000	.0023 (742) P= .475
VCO2	.0363 (752) P= .160	.0578 (753) P= .056	-0.1833 (753) P= .000	.0539 (752) P= .070	.0017 (751) P= .481	-0.1032 (750) P= .002	-0.0721 (752) P= .024	.3794 (753) P= .000	.8973 (753) P= .000	.2689 (751) P= .000	.0641 (742) P= .041
VEVO2	-0.1401 (752) P= .000	-0.1589 (753) P= .000	-0.0938 (753) P= .005	-0.0998 (752) P= .003	-0.1419 (751) P= .000	-0.0593 (750) P= .052	-0.1191 (752) P= .001	-0.2359 (753) P= .000	-0.1387 (753) P= .000	.0269 (751) P= .231	-0.1672 (742) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VC02	VEV02	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
ELBOWD	.2617 (750) P= .000	-0.0094 (750) P= .399	-0.1632 (750) P= .002	-0.0593 (750) P= .052	-0.0593 (750) P= .052	-0.1632 (750) P= .002	.2869 (1120) P= .000	.2315 (998) P= .000	-0.0681 (1123) P= .011	.0682 (1123) P= .011	.4750 (1123) P= .000
WRISTD	.2625 (752) P= .000	.0058 (752) P= .437	-0.0721 (752) P= .024	-0.1191 (752) P= .001	-0.0229 (752) P= .268	-0.1027 (752) P= .002	.3175 (1122) P= .000	.3095 (999) P= .000	-0.1213 (1125) P= .000	.1212 (1125) P= .000	.5199 (1125) P= .000
VO2LMIN	.6649 (753) P= .000	.0455 (753) P= .106	.3794 (753) P= .000	-0.2359 (753) P= .000	.1944 (753) P= .000	.2814 (753) P= .000	.4539 (750) P= .000	.1117 (647) P= .002	.6458 (752) P= .109	-0.0449 (752) P= .109	.7988 (752) P= .000
VO2MLKG	.2620 (753) P= .000	.1102 (753) P= .001	.8973 (753) P= .000	-0.1387 (753) P= .000	.5037 (753) P= .000	.6819 (753) P= .000	.1103 (960) P= .000	-0.0792 (858) P= .010	.6008 (963) P= .000	-0.6024 (963) P= .000	-0.0961 (963) P= .004
HR	.0678 (751) P= .032	.1308 (751) P= .000	.2689 (751) P= .000	.0268 (751) P= .231	-0.0657 (751) P= .036	.3255 (751) P= .000	-0.0650 (958) P= .022	-0.3000 (857) P= .000	.1635 (961) P= .000	-0.1646 (961) P= .000	-0.1767 (961) P= .000
DYLIFT	.3185 (742) P= .000	.0023 (742) P= .475	.0641 (742) P= .041	-0.1672 (742) P= .000	.0371 (742) P= .157	.0559 (742) P= .064	.2143 (799) P= .000	-0.0054 (683) P= .444	.1443 (801) P= .000	-0.1450 (801) P= .000	.6106 (801) P= .000
VE	1.0000 (753) P= .000	.3578 (753) P= .000	.3738 (753) P= .000	.5538 (753) P= .000	.1603 (753) P= .000	.2115 (753) P= .000	.4155 (750) P= .000	.0950 (647) P= .008	-0.0168 (752) P= .323	.0169 (752) P= .322	.4621 (752) P= .000
R	.3578 (753) P= .000	1.0000 (753) P= .000	.4969 (753) P= .000	.4133 (753) P= .000	.2284 (753) P= .000	.1631 (753) P= .000	.1324 (750) P= .000	.0194 (647) P= .311	.0792 (752) P= .015	-0.0793 (752) P= .015	-0.0239 (752) P= .256
VC02	.3738 (753) P= .000	.4969 (753) P= .000	1.0000 (753) P= .000	.0494 (753) P= .088	.5326 (753) P= .000	.6406 (753) P= .000	.1613 (750) P= .000	-0.0270 (647) P= .246	.5831 (752) P= .000	-0.5848 (752) P= .000	-0.1118 (752) P= .001
VEV02	.5538 (753) P= .000	.4133 (753) P= .000	.0494 (753) P= .088	1.0000 (753) P= .000	-0.0168 (753) P= .323	-0.0477 (753) P= .098	.0369 (750) P= .157	.0010 (647) P= .490	-0.0790 (752) P= .015	.0794 (752) P= .015	-0.1728 (752) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
ELBOWD	.2013	.1234	.1420	.1215	.1342	.1234	.2586	-0.0990	-0.1114	-0.0476	.1190
	(1123)	(1124)	(1123)	(1124)	(1120)	(1121)	(1121)	(1121)	(988)	(863)	(861)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .081	P= .000
WRISTD	.2673	.2212	.2700	.2187	.2609	.2176	.1701	-0.1186	-0.1243	-0.0708	.1185
	(1125)	(1126)	(1125)	(1126)	(1122)	(1123)	(1123)	(1123)	(990)	(864)	(862)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .019	P= .000
VO2LMIN	.1608	.1131	.0188	.1168	.0141	.1075	.2558	-0.2139	-0.1015	.0878	.0880
	(752)	(753)	(751)	(753)	(748)	(749)	(749)	(749)	(671)	(557)	(556)
	P= .000	P= .001	P= .304	P= .001	P= .351	P= .002	P= .000	P= .000	P= .004	P= .019	P= .019
VO2MLKG	-0.6114	-0.5648	-0.5724	-0.5599	-0.5758	-0.5477	-0.2177	.4211	.4068	.5166	-0.5535
	(963)	(963)	(962)	(963)	(959)	(960)	(960)	(960)	(844)	(735)	(733)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
HR	-0.2114	-0.1256	-0.2923	-0.1281	-0.2869	-0.1191	-0.0572	.1251	.1031	.1301	-0.1872
	(961)	(961)	(961)	(961)	(958)	(958)	(958)	(958)	(843)	(735)	(733)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .038	P= .000	P= .001	P= .000	P= .000
DYLIFT	.0216	.0350	-0.0294	.0377	-0.0330	.0441	.3301	-0.2449	-0.0706	.1578	.0009
	(801)	(802)	(800)	(802)	(797)	(799)	(799)	(799)	(715)	(587)	(586)
	P= .271	P= .161	P= .204	P= .143	P= .176	P= .107	P= .000	P= .000	P= .030	P= .000	P= .492
VE	.1507	.0774	.0236	.0803	.0222	.0804	.1587	-0.1692	-0.0579	.0726	.0820
	(752)	(753)	(751)	(753)	(748)	(749)	(749)	(749)	(671)	(557)	(556)
	P= .000	P= .017	P= .259	P= .014	P= .272	P= .014	P= .000	P= .000	P= .067	P= .044	P= .027
R	-0.0827	-0.0896	-0.0907	-0.0898	-0.1003	-0.0794	-0.0523	.0780	.0774	.1188	-0.0911
	(752)	(753)	(751)	(753)	(748)	(749)	(749)	(749)	(671)	(557)	(556)
	P= .012	P= .007	P= .006	P= .007	P= .003	P= .015	P= .076	P= .016	P= .023	P= .002	P= .016
VCO2	-0.5969	-0.5248	-0.5896	-0.5219	-0.5940	-0.5104	-0.2710	.4227	.4031	.5206	-0.5491
	(752)	(753)	(751)	(753)	(748)	(749)	(749)	(749)	(671)	(557)	(556)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
VEVO2	.0265	-0.0192	.0213	-0.0198	.0244	-0.0093	-0.0628	.0039	.0248	.0003	.0205
	(752)	(753)	(751)	(753)	(748)	(749)	(749)	(749)	(671)	(557)	(556)
	P= .234	P= .299	P= .280	P= .294	P= .253	P= .400	P= .043	P= .458	P= .261	P= .497	P= .314

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
ELBOWD	.0621 (271) P= .154	.0910 (271) P= .068	.0309 (270) P= .307	-0.0368 (271) P= .273	.0582 (270) P= .170	.0288 (255) P= .324	-0.0242 (255) P= .0	-0.0387 (254) P= .270	.0617 (256) P= .163	. (271) P= .	. (271) P= .
WRISTD	.0536 (270) P= .190	.0192 (270) P= .377	.1410 (269) P= .010	-0.0948 (270) P= .060	-0.0259 (269) P= .336	-0.0475 (255) P= .225	-0.0521 (255) P= .204	-0.0421 (254) P= .252	.0208 (256) P= .370	. (270) P= .	. (270) P= .
VO2LMIN	-0.0647 (237) P= .161	.0628 (237) P= .168	.0649 (236) P= .160	-0.0491 (237) P= .226	.0495 (236) P= .224	.2037 (222) P= .001	.0168 (222) P= .402	-0.3086 (224) P= .000	.1973 (227) P= .001	. (237) P= .	. (237) P= .
VO2MLKG	-0.2245 (238) P= .000	-0.0324 (238) P= .309	-0.0189 (237) P= .398	.0744 (238) P= .127	-0.0222 (237) P= .367	.3863 (223) P= .000	.3733 (223) P= .000	-0.6217 (225) P= .000	.4344 (227) P= .000	. (238) P= .	. (238) P= .
HR	-0.1654 (238) P= .005	-0.1403 (238) P= .015	.0839 (237) P= .099	-0.1673 (238) P= .005	-0.0770 (237) P= .119	.1829 (223) P= .003	.1661 (223) P= .006	-0.0991 (225) P= .069	.0835 (227) P= .105	. (238) P= .	. (238) P= .
DYLIFT	-0.0960 (243) P= .068	.0140 (243) P= .414	.0179 (242) P= .391	-0.0440 (243) P= .247	.0067 (242) P= .459	.0810 (228) P= .111	.1537 (228) P= .010	-0.2238 (229) P= .000	.2137 (232) P= .001	. (243) P= .	. (243) P= .
VE	-0.0675 (237) P= .150	.0751 (237) P= .125	.0416 (236) P= .263	-0.0913 (237) P= .080	.0407 (236) P= .267	.2116 (222) P= .001	.0018 (222) P= .489	-0.2746 (224) P= .000	.1530 (227) P= .011	. (237) P= .	. (237) P= .
R	.0664 (237) P= .154	-0.0078 (237) P= .452	-0.0625 (236) P= .169	-0.0800 (237) P= .110	-0.0554 (236) P= .198	.1763 (222) P= .004	.0731 (222) P= .139	-0.1512 (224) P= .012	.1430 (227) P= .016	. (237) P= .	. (237) P= .
VCO2	-0.1323 (237) P= .021	-0.0065 (237) P= .460	-0.0414 (236) P= .263	.0040 (237) P= .476	-0.0491 (236) P= .226	.4063 (222) P= .000	.3400 (222) P= .000	-0.6011 (224) P= .000	.4319 (227) P= .000	. (237) P= .	. (237) P= .
VEVO2	-0.0091 (237) P= .445	.0342 (237) P= .300	-0.0275 (236) P= .337	-0.0736 (237) P= .129	-0.0105 (236) P= .436	.0436 (222) P= .259	-0.0070 (222) P= .458	-0.0142 (224) P= .416	-0.0199 (227) P= .383	. (237) P= .	. (237) P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
ELBOWD	-0.0140 (271) P= .409	.0139 (271) P= .410	-0.0010 (271) P= .493	.0641 (271) P= .146	.1221 (271) P= .022	.0738 (270) P= .114	.0772 (271) P= .102	.0789 (271) P= .098	.0520 (271) P= .197	-0.0042 (271) P= .473	.1600 (271) P= .007
WRISTD	.0087 (270) P= .443	.0699 (270) P= .126	-0.0012 (270) P= .492	.0625 (270) P= .153	.1227 (270) P= .022	.0753 (269) P= .109	.1459 (270) P= .008	.1583 (270) P= .005	.1376 (270) P= .012	.0925 (270) P= .065	.0780 (270) P= .101
VO2LMIN	-0.1589 (237) P= .007	.1784 (237) P= .003	-0.0254 (237) P= .349	.0822 (237) P= .104	.1219 (237) P= .031	.0882 (236) P= .088	.1728 (237) P= .004	.1577 (237) P= .008	.1514 (237) P= .010	.1586 (237) P= .007	.0405 (237) P= .268
VO2MLKG	-0.0612 (238) P= .174	-0.2648 (238) P= .000	-0.4068 (238) P= .000	-0.5183 (238) P= .000	-0.5062 (238) P= .000	-0.4161 (237) P= .000	-0.3267 (238) P= .000	-0.3022 (238) P= .000	-0.3627 (238) P= .000	-0.3306 (238) P= .000	-0.1842 (238) P= .002
HR	.0270 (238) P= .339	-0.1359 (238) P= .018	-0.0847 (238) P= .097	-0.1045 (238) P= .054	-0.0215 (238) P= .371	-0.0345 (237) P= .298	-0.0497 (238) P= .223	-0.0920 (238) P= .079	-0.1118 (238) P= .043	-0.0122 (238) P= .428	-0.0475 (238) P= .233
DYLIFT	-0.0368 (243) P= .284	.0356 (243) P= .291	-0.0209 (243) P= .373	.0168 (243) P= .398	-0.0134 (243) P= .418	.0414 (242) P= .261	.0794 (243) P= .109	.0799 (243) P= .107	.0722 (243) P= .131	-0.0219 (243) P= .367	-0.0099 (243) P= .439
VE	-0.1259 (237) P= .028	.0064 (237) P= .461	-0.0068 (237) P= .459	-0.0042 (237) P= .474	.0148 (237) P= .411	-0.0158 (236) P= .405	.0242 (237) P= .356	-0.0130 (237) P= .421	.0300 (237) P= .323	-0.0414 (237) P= .263	-0.0363 (237) P= .289
R	-0.0105 (237) P= .436	.0403 (237) P= .269	.0300 (237) P= .323	.0146 (237) P= .412	.0247 (237) P= .352	.0438 (236) P= .252	-0.0132 (237) P= .420	-0.0564 (237) P= .194	-0.0336 (237) P= .304	-0.0439 (237) P= .250	-0.0293 (237) P= .327
VCO2	-0.0509 (237) P= .218	-0.1888 (237) P= .002	-0.3106 (237) P= .000	-0.4228 (237) P= .000	-0.4182 (237) P= .000	-0.3221 (236) P= .000	-0.2780 (237) P= .000	-0.2837 (237) P= .000	-0.3248 (237) P= .000	-0.3675 (237) P= .000	-0.1715 (237) P= .004
VEVO2	-0.0170 (237) P= .397	-0.1756 (237) P= .003	.0157 (237) P= .405	-0.1045 (237) P= .054	-0.1203 (237) P= .032	-0.1158 (236) P= .038	-0.1609 (237) P= .007	-0.1945 (237) P= .001	-0.1302 (237) P= .023	-0.2036 (237) P= .001	-0.0960 (237) P= .070

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
ELBOWD	.0472 (271) P= .220	.0163 (271) P= .395	.1055 (270) P= .042	.2873 (270) P= .000	.2076 (270) P= .000	.2218 (270) P= .000	.1802 (270) P= .001	.1502 (270) P= .007	.0592 (271) P= .168	.2158 (271) P= .000	.3002 (271) P= .000
WRISTD	.1677 (270) P= .003	.0759 (270) P= .107	.1830 (269) P= .001	.3626 (269) P= .000	.2913 (269) P= .000	.1704 (269) P= .003	.2699 (269) P= .000	.2872 (269) P= .000	.1041 (270) P= .044	.2930 (270) P= .000	.3567 (270) P= .000
VO2LMIN	.2019 (237) P= .001	.0888 (237) P= .086	.0989 (236) P= .065	.5388 (237) P= .000	.4495 (236) P= .000	.3797 (236) P= .000	.4085 (236) P= .000	.4600 (236) P= .000	.4259 (237) P= .000	.4029 (237) P= .000	.4658 (237) P= .000
VO2MLKG	-0.3739 (238) P= .000	-0.4338 (238) P= .000	-0.1419 (237) P= .014	-0.2395 (238) P= .000	-0.3653 (237) P= .000	-0.4208 (237) P= .000	-0.4186 (237) P= .000	-0.4550 (237) P= .000	-0.3617 (238) P= .000	-0.4326 (238) P= .000	-0.2524 (238) P= .000
HR	-0.0044 (238) P= .473	-0.0870 (238) P= .090	-0.0571 (237) P= .191	-0.0559 (238) P= .195	-0.1407 (237) P= .015	-0.1364 (237) P= .018	-0.1047 (237) P= .054	-0.0592 (237) P= .182	.0091 (238) P= .444	-0.0482 (238) P= .229	.0375 (236) P= .282
DYLIFT	.0071 (243) P= .456	-0.0719 (243) P= .132	.0514 (242) P= .213	.3453 (243) P= .000	.2074 (242) P= .001	.1098 (242) P= .044	.1416 (242) P= .014	.1477 (242) P= .011	.2104 (243) P= .000	.2190 (243) P= .000	.2783 (243) P= .000
VE	.0385 (237) P= .278	.0748 (237) P= .126	.1926 (236) P= .001	.3773 (237) P= .000	.2479 (236) P= .000	.2928 (236) P= .000	.2921 (236) P= .000	.2743 (236) P= .000	.3131 (237) P= .000	.2687 (237) P= .000	.3090 (237) P= .000
R	-0.0492 (237) P= .228	-0.0329 (237) P= .307	-0.0021 (236) P= .487	-0.0060 (237) P= .464	-0.0226 (236) P= .365	-0.0731 (236) P= .132	-0.0241 (236) P= .357	-0.0328 (236) P= .309	-0.0377 (237) P= .282	.0199 (237) P= .380	.0229 (237) P= .368
VCO2	-0.3395 (237) P= .000	-0.3663 (237) P= .000	-0.1225 (236) P= .030	-0.2010 (237) P= .001	-0.3078 (236) P= .000	-0.3834 (236) P= .000	-0.3672 (236) P= .000	-0.4035 (236) P= .000	-0.3347 (237) P= .000	-0.3558 (237) P= .000	-0.1994 (237) P= .001
VEVO2	-0.1614 (237) P= .006	-0.0109 (237) P= .434	.1349 (236) P= .019	-0.1208 (237) P= .032	-0.1599 (236) P= .007	-0.0458 (236) P= .242	-0.0713 (236) P= .138	-0.1425 (236) P= .014	-0.0689 (237) P= .152	-0.1036 (237) P= .056	-0.1104 (237) P= .045

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
ELBOWD	.2262	.2190	.1402	.2013	.1721	.2333	.0817	.2728	.2531	.2516	.1919
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .000	P= .000	P= .010	P= .000	P= .002	P= .000	P= .090	P= .000	P= .000	P= .000	P= .001
WRISTD	.3801	.3350	.3068	.4709	.2104	.2825	.1071	.3968	.4202	.4367	.4078
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .040	P= .000	P= .000	P= .000	P= .000
VO2LMIN	.3867	.4416	.4285	.5428	.3700	.4821	-0.0271	.5267	.6288	.4653	.4861
	(237)	(237)	(237)	(237)	(236)	(235)	(237)	(237)	(237)	(237)	(237)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .339	P= .000	P= .000	P= .000	P= .000
VO2MLKG	.1588	-0.2903	-0.3255	-0.1165	-0.1841	-0.3150	-0.2447	-0.5170	-0.4270	.0393	-0.0590
	(238)	(238)	(238)	(238)	(237)	(236)	(238)	(238)	(238)	(238)	(238)
	P= .007	P= .000	P= .000	P= .036	P= .002	P= .000	P= .000	P= .397	P= .000	P= .273	P= .182
HR	.0400	-0.0346	-0.0480	-0.0289	.0044	-0.0202	-0.3731	.0130	-0.0714	-0.0030	-0.0083
	(238)	(238)	(238)	(238)	(237)	(236)	(238)	(238)	(238)	(238)	(238)
	P= .270	P= .298	P= .231	P= .328	P= .473	P= .379	P= .000	P= .421	P= .138	P= .482	P= .449
DYLIFT	.2114	.1060	.1277	.1787	.2536	.2065	-0.0643	.1888	.2654	.2586	.3031
	(243)	(243)	(243)	(243)	(242)	(241)	(243)	(243)	(243)	(243)	(243)
	P= .000	P= .050	P= .023	P= .003	P= .000	P= .000	P= .159	P= .002	P= .000	P= .000	P= .000
VE	.3081	.2762	.2110	.2723	.2614	.2794	-0.0883	.3611	.4007	.1604	.2165
	(237)	(237)	(237)	(237)	(236)	(235)	(237)	(237)	(237)	(237)	(237)
	P= .000	P= .000	P= .001	P= .000	P= .000	P= .000	P= .088	P= .000	P= .000	P= .007	P= .001
R	.0461	-0.0242	.0016	-0.0287	.0762	.0402	.0394	.0371	.0003	-0.0148	-0.0248
	(237)	(237)	(237)	(237)	(236)	(235)	(237)	(237)	(237)	(237)	(237)
	P= .240	P= .355	P= .490	P= .330	P= .122	P= .270	P= .273	P= .285	P= .498	P= .410	P= .353
VCO2	.1585	-0.2598	-0.2791	-0.1188	-0.1113	-0.2407	-0.1643	.0089	-0.3547	.0401	-0.0525
	(237)	(237)	(237)	(237)	(236)	(235)	(237)	(237)	(237)	(237)	(237)
	P= .007	P= .000	P= .000	P= .034	P= .044	P= .000	P= .006	P= .448	P= .000	P= .269	P= .211
VEVO2	-0.0091	-0.1140	-0.1886	-0.2175	-0.0865	-0.1420	-0.0729	-0.0952	-0.1635	-0.2316	-0.2527
	(237)	(237)	(237)	(237)	(236)	(235)	(237)	(237)	(237)	(237)	(237)
	P= .444	P= .040	P= .002	P= .000	P= .154	P= .015	P= .132	P= .072	P= .006	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	IILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
ELBOWD	.1899 (270) P= .001	.1708 (271) P= .002	.3228 (271) P= .000	.2751 (271) P= .000	.0996 (271) P= .051	1.0000 (271) P= .000	.3679 (270) P= .000	.2798 (237) P= .000	-0.0334 (238) P= .304	-0.0055 (238) P= .466	.1365 (243) P= .017
WRISTD	.3235 (269) P= .000	.3924 (270) P= .000	.3788 (270) P= .000	.5264 (270) P= .000	.2707 (270) P= .000	.3679 (270) P= .000	1.0000 (270) P= .000	.4067 (236) P= .000	-0.0597 (237) P= .180	.0348 (237) P= .297	.2475 (242) P= .000
VO2LMIN	.3080 (236) P= .000	.3598 (237) P= .000	.3426 (237) P= .000	.4831 (237) P= .000	.3324 (237) P= .000	.2798 (237) P= .000	.4067 (236) P= .000	1.0000 (237) P= .000	.4259 (237) P= .000	.0333 (237) P= .305	.4114 (234) P= .000
VO2MLKG	-0.0816 (237) P= .105	-0.1242 (238) P= .028	-0.2419 (238) P= .000	.0665 (238) P= .153	-0.0486 (238) P= .228	-0.0334 (238) P= .304	-0.0597 (237) P= .180	.4259 (237) P= .000	1.0000 (238) P= .000	.1324 (238) P= .021	.1469 (234) P= .012
HR	.0015 (237) P= .491	-0.0183 (238) P= .389	.0108 (238) P= .434	-0.0360 (238) P= .290	-0.0033 (238) P= .480	-0.0055 (238) P= .466	.0348 (237) P= .297	.0333 (237) P= .305	.1324 (238) P= .021	1.0000 (238) P= .000	.1158 (234) P= .039
DYLIFT	.1174 (242) P= .034	.1504 (243) P= .009	.1345 (243) P= .018	.2051 (243) P= .001	.2746 (243) P= .000	.1365 (243) P= .017	.2475 (242) P= .000	.4114 (234) P= .000	.1469 (234) P= .012	.1158 (234) P= .039	1.0000 (243) P= .000
VE	.1092 (236) P= .047	.1168 (237) P= .036	.2059 (237) P= .001	.3157 (237) P= .000	.0705 (237) P= .140	.2372 (237) P= .000	.2281 (236) P= .000	.5877 (237) P= .000	.2228 (237) P= .000	.1417 (237) P= .015	.2377 (234) P= .000
R	.0117 (236) P= .429	.0348 (237) P= .297	.1322 (237) P= .021	.0184 (237) P= .401	-0.0473 (237) P= .234	.0465 (237) P= .238	.0368 (236) P= .287	.0644 (237) P= .162	.0715 (237) P= .137	.1705 (237) P= .004	.0393 (234) P= .275
VCO2	-0.0424 (236) P= .258	-0.0694 (237) P= .144	-0.1385 (237) P= .017	.0677 (237) P= .150	-0.0421 (237) P= .259	.0068 (237) P= .459	-0.0296 (236) P= .326	.3897 (237) P= .000	.8747 (237) P= .000	.1743 (237) P= .004	.1478 (234) P= .012
VEVO2	-0.1825 (236) P= .002	-0.2266 (237) P= .000	-0.1000 (237) P= .062	-0.0953 (237) P= .072	-0.2523 (237) P= .000	-0.0152 (237) P= .408	-0.1461 (236) P= .012	-0.2959 (237) P= .000	-0.1445 (237) P= .013	.1339 (237) P= .020	-0.1363 (234) P= .019

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
ELBOWD	.2372	.0465	.0068	-0.0152	.0313	-0.0635	.1782	.1534	.0099	-0.0067	.2974
	(237)	(237)	(237)	(237)	(237)	(237)	(265)	(260)	(266)	(266)	(266)
	P= .000	P= .238	P= .459	P= .408	P= .316	P= .165	P= .002	P= .007	P= .436	P= .457	P= .000
WRISTD	.2281	.0368	-0.0296	-0.1461	-0.0851	-0.0058	.2455	.1979	.0362	-0.0342	.5045
	(236)	(236)	(236)	(236)	(236)	(236)	(264)	(259)	(265)	(265)	(265)
	P= .000	P= .287	P= .326	P= .012	P= .096	P= .464	P= .000	P= .001	P= .279	P= .289	P= .000
VO2LMIN	.5877	.0644	.3897	-0.2959	.2340	.2821	.5674	.1972	-0.0735	.0734	.7179
	(237)	(237)	(237)	(237)	(237)	(237)	(231)	(226)	(232)	(232)	(232)
	P= .000	P= .162	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .132	P= .133	P= .000
VO2MLKG	.2228	.0715	.8747	-0.1445	.4872	.6132	.1993	.0099	.5651	-0.5666	-0.0865
	(237)	(237)	(237)	(237)	(237)	(237)	(232)	(227)	(233)	(233)	(233)
	P= .000	P= .137	P= .000	P= .013	P= .000	P= .000	P= .001	P= .441	P= .000	P= .000	P= .094
HR	.1417	.1705	.1743	.1339	-0.0710	.1055	-0.0295	-0.0368	.1263	-0.1296	.0460
	(237)	(237)	(237)	(237)	(237)	(237)	(232)	(227)	(233)	(233)	(233)
	P= .015	P= .004	P= .004	P= .020	P= .138	P= .053	P= .327	P= .291	P= .027	P= .024	P= .242
DYLIFT	.2377	.0393	.1478	-0.1363	.0561	.0900	.3132	.1096	.0853	-0.0856	.3853
	(234)	(234)	(234)	(234)	(234)	(234)	(237)	(232)	(238)	(238)	(238)
	P= .000	P= .275	P= .012	P= .019	P= .197	P= .085	P= .000	P= .048	P= .095	P= .094	P= .000
VE	1.0000	.3015	.3314	.5859	.1405	.2124	.3168	.1548	.0136	-0.0122	.4996
	(237)	(237)	(237)	(237)	(237)	(237)	(231)	(226)	(232)	(232)	(232)
	P= .000	P= .000	P= .000	P= .000	P= .015	P= .001	P= .000	P= .010	P= .418	P= .427	P= .000
R	.3015	1.0000	.5407	.2981	.1775	.1388	.0946	.1269	.0552	-0.0560	.0528
	(237)	(237)	(237)	(237)	(237)	(237)	(231)	(226)	(232)	(232)	(232)
	P= .000	P= .000	P= .000	P= .000	P= .003	P= .016	P= .076	P= .028	P= .201	P= .198	P= .212
VCO2	.3314	.5407	1.0000	.0183	.5005	.5791	.2227	.0761	.4961	-0.4973	-0.0492
	(237)	(237)	(237)	(237)	(237)	(237)	(231)	(226)	(232)	(232)	(232)
	P= .000	P= .000	P= .000	P= .389	P= .000	P= .000	P= .000	P= .127	P= .000	P= .000	P= .228
VEVO2	.5859	.2981	.0183	1.0000	-0.0581	-0.0142	-0.1759	-0.0002	.0856	-0.0839	-0.1350
	(237)	(237)	(237)	(237)	(237)	(237)	(231)	(226)	(232)	(232)	(232)
	P= .000	P= .000	P= .389	P= .000	P= .186	P= .414	P= .004	P= .499	P= .097	P= .102	P= .020

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
ELBOWD	.1030	.0912	.0618	.0902	.0833	.0854	.2371	.0206	-0.0834	-0.0750	.0386
	(266)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(239)	(218)	(216)
	P= .047	P= .067	P= .155	P= .069	P= .086	P= .081	P= .000	P= .368	P= .099	P= .135	P= .286
WRISTD	.1440	.1353	.1495	.1399	.1775	.1479	.1489	-0.0818	-0.0408	-0.0748	.0812
	(265)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(238)	(217)	(215)
	P= .010	P= .013	P= .007	P= .011	P= .002	P= .007	P= .007	P= .090	P= .266	P= .136	P= .118
VO2LMIN	.3153	.1431	.1631	.1511	.1760	.1630	.1185	-0.2329	-0.1288	-0.1443	.2170
	(232)	(237)	(237)	(237)	(237)	(237)	(237)	(237)	(212)	(191)	(189)
	P= .000	P= .014	P= .006	P= .010	P= .003	P= .006	P= .034	P= .000	P= .031	P= .023	P= .001
VO2MLKG	-0.5793	-0.4993	-0.4799	-0.4933	-0.4643	-0.4697	-0.3029	.3784	.3998	.4521	-0.4872
	(233)	(238)	(238)	(238)	(238)	(238)	(238)	(238)	(212)	(191)	(189)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
HR	-0.1240	-0.0895	-0.1048	-0.0865	-0.0955	-0.0775	-0.0429	.0255	.1271	.1379	-0.1081
	(233)	(238)	(238)	(238)	(238)	(238)	(238)	(238)	(212)	(191)	(189)
	P= .029	P= .084	P= .053	P= .092	P= .071	P= .117	P= .255	P= .348	P= .032	P= .029	P= .069
DYLIFT	.0574	.0226	.0469	.0335	.0618	.0656	.0829	-0.1433	.0085	.0279	.0779
	(238)	(243)	(243)	(243)	(243)	(243)	(243)	(243)	(216)	(197)	(195)
	P= .189	P= .363	P= .233	P= .301	P= .169	P= .154	P= .099	P= .013	P= .450	P= .348	P= .139
VE	.1691	.0108	-0.0132	.0134	-0.0066	-0.0095	.0670	-0.1076	.0191	.0083	-0.0136
	(232)	(237)	(237)	(237)	(237)	(237)	(237)	(237)	(212)	(191)	(189)
	P= .005	P= .434	P= .420	P= .419	P= .460	P= .442	P= .152	P= .049	P= .391	P= .455	P= .426
R	-0.0406	-0.0189	-0.0130	-0.0091	-0.0021	-0.0148	.0569	.0002	.1470	.0561	-0.0419
	(232)	(237)	(237)	(237)	(237)	(237)	(237)	(237)	(212)	(191)	(189)
	P= .269	P= .386	P= .421	P= .445	P= .487	P= .410	P= .191	P= .499	P= .016	P= .220	P= .284
VCO2	-0.4991	-0.4268	-0.4059	-0.4168	-0.3871	-0.4018	-0.2274	.3188	.3965	.4096	-0.4324
	(232)	(237)	(237)	(237)	(237)	(237)	(237)	(237)	(212)	(191)	(189)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
VEVO2	-0.1145	-0.1509	-0.1988	-0.1548	-0.2037	-0.1972	-0.0517	.1245	.1492	.1608	-0.2420
	(232)	(237)	(237)	(237)	(237)	(237)	(237)	(237)	(212)	(191)	(189)
	P= .041	P= .010	P= .001	P= .009	P= .001	P= .001	P= .214	P= .028	P= .015	P= .013	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
TMSPEED	-Ø.2651 (751) P= .ØØØ	-Ø.1359 (753) P= .ØØØ	-Ø.1144 (751) P= .ØØ1	-Ø.1190 (752) P= .ØØ1	-Ø.1054 (741) P= .ØØ2	.2927 (701) P= .ØØØ	.3097 (703) P= .ØØØ	-Ø.4131 (696) P= .ØØØ	.3360 (708) P= .ØØØ	. (753) P= .	. (753) P= .
TMGRADE	-Ø.3199 (751) P= .ØØØ	-Ø.1630 (753) P= .ØØØ	-Ø.1059 (751) P= .ØØ2	-Ø.0856 (752) P= .ØØ9	-Ø.0944 (741) P= .ØØ5	.3448 (701) P= .ØØØ	.3277 (703) P= .ØØØ	-Ø.5086 (696) P= .ØØØ	.4225 (708) P= ØØØ	. (753) P= .	. (753) P= .
VC	.1087 (1122) P= .ØØØ	.2334 (1123) P= .ØØØ	-Ø.Ø571 (1108) P= .Ø29	-Ø.Ø987 (1113) P= .ØØØ	.1150 (1105) P= .ØØØ	-Ø.Ø498 (1010) P= .Ø57	-Ø.Ø175 (1011) P= .289	-Ø.ØØ44 (1002) P= .444	.Ø320 (831) P= .179	. (1123) P= .	. (1123) P= .
RLV	.4925 (999) P= .ØØØ	.5474 (1000) P= .ØØØ	-Ø.Ø776 (985) P= .ØØ7	-Ø.Ø934 (990) P= .ØØ1	.3582 (984) P= .ØØØ	-Ø.2270 (893) P= .ØØØ	-Ø.2866 (893) P= .ØØØ	.1261 (885) P= .ØØØ	-Ø.ØØ97 (711) P= .398	. (1000) P= .	. (1000) P= .
MDEN	-Ø.4129 (1125) P= .ØØØ	-Ø.3250 (1126) P= .ØØØ	-Ø.Ø402 (1111) P= .Ø90	-Ø.Ø593 (1116) P= .Ø24	-Ø.1969 (1108) P= .ØØØ	.4285 (1013) P= .ØØØ	.4155 (1013) P= .ØØØ	-Ø.5122 (1005) P= .ØØØ	.4120 (833) P= .ØØØ	. (1126) P= .	. (1126) P= .
UWWPCBF	.4128 (1125) P= .ØØØ	.3232 (1126) P= .ØØØ	.Ø413 (1111) P= .Ø84	.Ø599 (1116) P= .Ø23	.1960 (1108) P= .ØØØ	-Ø.4294 (1013) P= .ØØØ	-Ø.4167 (1013) P= .ØØØ	.5129 (1005) P= .ØØØ	-Ø.4131 (833) P= .ØØØ	. (1126) P= .	. (1126) P= .
UWWLBM	.Ø524 (1125) P= .Ø4Ø	.Ø665 (1126) P= .Ø13	-Ø.ØØ73 (1111) P= .4Ø4	-Ø.ØØ85 (1116) P= .389	.Ø631 (1108) P= .Ø18	.ØØ2Ø (1013) P= .474	.ØØ82 (1013) P= .397	.ØØ83 (1005) P= .397	.Ø103 (833) P= .383	. (1126) P= .	. (1126) P= .
UWWBF	.4070 (1125) P= .ØØØ	.3159 (1126) P= .ØØØ	.Ø419 (1111) P= .Ø81	.Ø602 (1116) P= .Ø22	.1984 (1108) P= .ØØØ	-Ø.4203 (1013) P= .ØØØ	-Ø.4059 (1013) P= .ØØØ	.5049 (1005) P= .ØØØ	-Ø.4119 (833) P= .ØØØ	. (1126) P= .	. (1126) P= .
SUMS	.2631 (1125) P= .ØØØ	.1858 (1127) P= .ØØØ	.Ø428 (1111) P= .Ø77	.Ø237 (1116) P= .214	.1029 (1108) P= .ØØØ	-Ø.3351 (1013) P= .ØØØ	-Ø.3398 (1013) P= .ØØØ	.4286 (1005) P= .ØØØ	-Ø.3660 (833) P= .ØØØ	. (1127) P= .	. (1127) P= .
DWPCBFEX	.5689 (1124) P= .ØØØ	.5092 (1126) P= .ØØØ	.ØØ83 (1110) P= .391	-Ø.ØØ5Ø (1115) P= .433	.3121 (1107) P= .ØØØ	-Ø.4547 (1012) P= .ØØØ	-Ø.5021 (1012) P= .ØØØ	.4783 (1004) P= .ØØØ	-Ø.3882 (831) P= .ØØØ	. (1126) P= .	. (1126) P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
TMSPEED	.0353 (753) P= .167	-0.3158 (753) P= .000	-0.3474 (753) P= .000	-0.3322 (753) P= .000	-0.2650 (753) P= .000	-0.3234 (753) P= .000	-0.2758 (753) P= .000	-0.2744 (753) P= .000	-0.3673 (753) P= .000	-0.2534 (752) P= .000	-0.1562 (753) P= .000
TMGRADE	-0.0163 (753) P= .328	-0.3316 (753) P= .000	-0.4118 (753) P= .000	-0.4129 (753) P= .000	-0.2999 (753) P= .000	-0.4113 (753) P= .000	-0.3873 (753) P= .000	-0.3746 (753) P= .000	-0.4335 (753) P= .000	-0.2979 (752) P= .000	-0.1201 (753) P= .000
VC	-0.3574 (1123) P= .000	.0887 (1122) P= .001	.0520 (1122) P= .041	-0.0955 (1122) P= .001	.0027 (1122) P= .464	.0242 (1122) P= .209	.0197 (1122) P= .254	.0254 (1122) P= .198	.0555 (1122) P= .032	.0514 (1121) P= .043	-0.0153 (1122) P= .305
RLV	-0.2688 (1000) P= .000	.2082 (999) P= .000	.1329 (999) P= .000	-0.0257 (999) P= .209	-0.0207 (999) P= .257	.0453 (999) P= .076	.0194 (999) P= .270	.0238 (999) P= .226	.1004 (999) P= .001	.0380 (998) P= .115	-0.0902 (999) P= .002
MDEN	.1344 (1126) P= .000	-0.6537 (1125) P= .000	-0.7470 (1125) P= .000	-0.6858 (1125) P= .000	-0.6222 (1125) P= .000	-0.7642 (1125) P= .000	-0.7321 (1125) P= .000	-0.7291 (1125) P= .000	-0.7970 (1125) P= .000	-0.6326 (1124) P= .000	-0.2823 (1125) P= .000
UWWPCBF	-0.1338 (1126) P= .000	.6555 (1125) P= .000	.7497 (1125) P= .000	.6881 (1125) P= .000	.6227 (1125) P= .000	.7658 (1125) P= .000	.7327 (1125) P= .000	.7288 (1125) P= .000	.7958 (1125) P= .000	.6331 (1124) P= .000	.2629 (1125) P= .000
UWWLBM	-0.0984 (1126) P= .000	.0824 (1125) P= .003	.1534 (1125) P= .000	.1933 (1125) P= .000	.1187 (1125) P= .000	.1896 (1125) P= .000	.1922 (1125) P= .000	.1600 (1125) P= .000	.1674 (1125) P= .000	.0755 (1124) P= .000	.1960 (1125) P= .000
UWWBF	-0.1505 (1126) P= .000	.6714 (1125) P= .000	.7921 (1125) P= .000	.7433 (1125) P= .000	.6427 (1125) P= .000	.8137 (1125) P= .000	.7753 (1125) P= .000	.7522 (1125) P= .000	.8101 (1125) P= .000	.6352 (1124) P= .000	.3116 (1125) P= .000
SUMS	-0.0423 (1127) P= .078	.6374 (1127) P= .000	.7785 (1127) P= .000	.8865 (1127) P= .000	.7957 (1127) P= .000	.8734 (1127) P= .000	.9194 (1127) P= .000	.9397 (1127) P= .000	.8587 (1127) P= .000	.6779 (1126) P= .000	.4308 (1127) P= .000
DWPCBFEX	-0.1133 (1126) P= .000	.6903 (1125) P= .000	.7758 (1125) P= .000	.7774 (1125) P= .000	.6724 (1125) P= .000	.8080 (1125) P= .000	.8189 (1125) P= .000	.8489 (1125) P= .000	.8630 (1125) P= .000	.5989 (1124) P= .000	.3867 (1125) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
TMSPEED	-0.2418 (753) P= .000	-0.2852 (752) P= .000	-0.0786 (752) P= .018	-0.1773 (752) P= .000	-0.2613 (751) P= .000	-0.3439 (752) P= .000	-0.3372 (753) P= .000	-0.2871 (752) P= .000	-0.2061 (751) P= .000	-0.2207 (753) P= .000	-0.1324 (752) P= .000
TMGRADE	-0.2390 (753) P= .000	-0.3230 (752) P= .000	-0.1645 (752) P= .000	-0.2739 (752) P= .000	-0.3373 (751) P= .000	-0.4203 (752) P= .000	-0.4351 (753) P= .000	-0.3530 (752) P= .000	-0.2753 (751) P= .000	-0.2424 (753) P= .000	-0.1581 (752) P= .000
VC	.0454 (1121) P= .064	-0.0408 (1121) P= .086	.1945 (1122) P= .000	.2766 (1122) P= .000	.3098 (1121) P= .000	.2105 (1122) P= .000	.2327 (1123) P= .000	.2472 (1122) P= .000	.1348 (1120) P= .000	.0820 (1123) P= .003	.1665 (1122) P= .000
RLV	-0.0572 (998) P= .036	.0181 (999) P= .284	.1985 (999) P= .000	.1124 (999) P= .000	.1980 (998) P= .000	.1743 (999) P= .000	.1935 (1000) P= .000	.1151 (999) P= .000	.0077 (998) P= .404	-0.0393 (1000) P= .107	.0152 (999) P= .315
MDEN	-0.5382 (1124) P= .000	-0.6043 (1124) P= .000	-0.1961 (1125) P= .000	-0.3634 (1125) P= .000	-0.6001 (1124) P= .000	-0.7405 (1125) P= .000	-0.7669 (1126) P= .000	-0.6087 (1125) P= .000	-0.3683 (1123) P= .000	-0.3331 (1126) P= .000	-0.1547 (1125) P= .000
UWWPCBF	.5388 (1124) P= .000	.6071 (1124) P= .000	.1961 (1125) P= .000	.3651 (1125) P= .000	.6021 (1124) P= .000	.7423 (1125) P= .000	.7682 (1126) P= .000	.6104 (1125) P= .000	.3697 (1123) P= .000	.3345 (1126) P= .000	.1555 (1125) P= .000
UWWLBM	.1130 (1124) P= .000	.1830 (1124) P= .000	.4585 (1125) P= .000	.6909 (1125) P= .000	.5400 (1124) P= .000	.4741 (1125) P= .000	.4539 (1126) P= .000	.6081 (1125) P= .000	.5785 (1123) P= .000	.6252 (1126) P= .000	.6776 (1125) P= .000
UWWBF	.5591 (1124) P= .000	.6649 (1124) P= .000	.3228 (1125) P= .000	.5631 (1125) P= .000	.7552 (1124) P= .000	.8705 (1125) P= .000	.8882 (1126) P= .000	.7779 (1125) P= .000	.5250 (1123) P= .000	.5101 (1126) P= .000	.3460 (1125) P= .000
SUMS	.6014 (1126) P= .000	.7659 (1126) P= .000	.2803 (1126) P= .000	.4880 (1126) P= .000	.5954 (1125) P= .000	.7581 (1126) P= .000	.7825 (1127) P= .000	.6827 (1126) P= .000	.4523 (1124) P= .000	.5102 (1127) P= .000	.3173 (1126) P= .000
DWPCBFEX	.4663 (1124) P= .000	.6535 (1124) P= .000	.2971 (1125) P= .000	.4106 (1125) P= .000	.5792 (1124) P= .000	.7428 (1125) P= .000	.7710 (1126) P= .000	.5973 (1125) P= .000	.3660 (1123) P= .000	.4107 (1126) P= .000	.2312 (1125) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
TMSPEED	-0.0939 (752) P= .005	-0.1200 (753) P= .000	-0.1863 (753) P= .000	-0.0574 (752) P= .058	-0.1606 (751) P= .000	-0.1630 (753) P= .000	-0.3113 (753) P= .000	.0034 (749) P= .463	-0.2644 (753) P= .000	.1518 (753) P= .000	.0168 (753) P= .330
TMGRADE	-0.1460 (752) P= .000	-0.1514 (753) P= .000	-0.2416 (753) P= .000	-0.0662 (752) P= .035	-0.2622 (751) P= .000	-0.2219 (753) P= .000	-0.3448 (753) P= .000	-0.0006 (749) P= .494	-0.3587 (753) P= .000	.0577 (753) P= .057	-0.1103 (753) P= .001
VC	.3099 (1122) P= .000	.2331 (1123) P= .000	.2607 (1123) P= .000	.3189 (1120) P= .000	.1794 (1121) P= .000	.0797 (1123) P= .004	.1284 (1123) P= .000	.5464 (1119) P= .000	.3386 (1123) P= .000	.2898 (1123) P= .000	.2663 (1123) P= .000
RLV	.1889 (999) P= .000	.1177 (1000) P= .000	.0825 (1000) P= .005	.1122 (997) P= .000	.1139 (998) P= .000	-0.0268 (1000) P= .199	.5585 (1000) P= .000	.4795 (998) P= .000	.2326 (1000) P= .000	.2892 (1000) P= .000	.1273 (1000) P= .000
MDEN	-0.1235 (1125) P= .000	-0.2878 (1126) P= .000	-0.3445 (1126) P= .000	-0.1572 (1123) P= .000	-0.2954 (1124) P= .000	-0.2448 (1126) P= .000	-0.4425 (1126) P= .000	-0.0271 (1122) P= .182	-0.5451 (1126) P= .000	.0295 (1126) P= .162	-0.1567 (1126) P= .000
UWWPCBF	.1235 (1125) P= .000	.2879 (1126) P= .000	.3453 (1126) P= .000	.1576 (1123) P= .000	.2970 (1124) P= .000	.2464 (1126) P= .000	.4416 (1126) P= .000	.0273 (1122) P= .181	.5469 (1126) P= .000	-0.0304 (1126) P= .154	.1570 (1126) P= .000
UWWLBM	.6144 (1125) P= .000	.5334 (1126) P= .000	.6402 (1126) P= .000	.5592 (1123) P= .000	.5862 (1124) P= .000	.6579 (1126) P= .000	.0259 (1126) P= .192	.6278 (1122) P= .000	.7861 (1126) P= .000	.3448 (1126) P= .000	.5043 (1126) P= .000
UWWBF	.2962 (1125) P= .000	.4326 (1126) P= .000	.5231 (1126) P= .000	.3198 (1123) P= .000	.4609 (1124) P= .000	.4335 (1126) P= .000	.4236 (1126) P= .000	.2108 (1122) P= .000	.7724 (1126) P= .000	.0662 (1126) P= .013	.3024 (1126) P= .000
SUMS	.2281 (1126) P= .000	.3778 (1127) P= .000	.4528 (1127) P= .000	.2647 (1124) P= .000	.4102 (1125) P= .000	.4134 (1127) P= .000	.2542 (1127) P= .000	.0720 (1123) P= .008	.6430 (1127) P= .000	.0858 (1127) P= .002	.3018 (1127) P= .000
DWPCBFEX	.2010 (1125) P= .000	.3378 (1126) P= .000	.3866 (1126) P= .000	.1971 (1123) P= .000	.3624 (1124) P= .000	.3248 (1126) P= .000	.6130 (1126) P= .000	.1344 (1122) P= .000	.6067 (1126) P= .000	.1556 (1126) P= .000	.2621 (1126) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	IILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
TMSPEED	.0136 (752) P= .355	.0408 (753) P= .132	-0.1139 (753) P= .001	.0536 (752) P= .071	.0346 (751) P= .172	-0.0593 (750) P= .052	-0.0229 (752) P= .266	.1944 (753) P= .000	.5037 (753) P= .000	-0.0657 (751) P= .036	.0371 (742) P= .157
TMGRADE	-0.0383 (752) P= .147	-0.0192 (753) P= .299	-0.1413 (753) P= .000	.0180 (752) P= .311	-0.0776 (751) P= .017	-0.1032 (750) P= .002	-0.1027 (752) P= .002	.2814 (753) P= .000	.6819 (753) P= .000	.3255 (751) P= .000	.0559 (742) P= .064
VC	.3503 (1121) P= .000	.2918 (1123) P= .000	.1747 (1123) P= .000	.3212 (1122) P= .000	.3304 (1121) P= .000	.2869 (1120) P= .000	.3175 (1122) P= .000	.4539 (750) P= .000	.1103 (960) P= .000	-0.0650 (958) P= .022	.2143 (799) P= .000
RLV	.3642 (999) P= .000	.2846 (1000) P= .000	.0460 (1000) P= .073	.2739 (999) P= .000	.2990 (999) P= .000	.2315 (998) P= .000	.3095 (999) P= .000	.1117 (647) P= .002	-0.0792 (858) P= .010	-0.3080 (857) P= .000	-0.0054 (683) P= .444
MDEN	-0.2277 (1124) P= .000	-0.1579 (1126) P= .000	-0.1668 (1126) P= .000	.0093 (1125) P= .377	-0.2578 (1124) P= .000	-0.0681 (1123) P= .011	-0.1213 (1125) P= .000	.0450 (752) P= .109	.6008 (963) P= .000	.1635 (961) P= .000	.1443 (801) P= .000
UWWPCBF	.2264 (1124) P= .000	.1568 (1126) P= .000	.1675 (1126) P= .000	-0.0091 (1125) P= .380	.2571 (1124) P= .000	.0682 (1123) P= .011	.1212 (1125) P= .000	-0.0449 (752) P= .109	-0.6024 (963) P= .000	-0.1848 (961) P= .000	-0.1450 (801) P= .000
UWWLBM	.2759 (1124) P= .000	.3067 (1126) P= .000	.4632 (1126) P= .000	.4789 (1125) P= .000	.3614 (1124) P= .000	.4750 (1123) P= .000	.5199 (1125) P= .000	.7098 (752) P= .000	-0.0861 (963) P= .004	-0.1767 (961) P= .000	.6106 (801) P= .000
UWWBF	.2978 (1124) P= .000	.2383 (1126) P= .000	.3002 (1126) P= .000	.1287 (1125) P= .000	.3523 (1124) P= .000	.2013 (1123) P= .000	.2873 (1125) P= .000	.1608 (752) P= .000	-0.6114 (963) P= .000	-0.2114 (961) P= .000	.0218 (801) P= .271
SUMS	.2451 (1125) P= .000	.2463 (1127) P= .000	.2558 (1127) P= .000	.0259 (1126) P= .193	.3121 (1125) P= .000	.1234 (1124) P= .000	.2212 (1126) P= .000	.1131 (753) P= .001	-0.5648 (963) P= .000	-0.1256 (961) P= .000	.0350 (802) P= .161
DWPCBFEX	.3466 (1124) P= .000	.2973 (1126) P= .000	.1854 (1126) P= .000	.0802 (1125) P= .004	.3791 (1124) P= .000	.1420 (1123) P= .000	.2700 (1125) P= .000	.0188 (751) P= .304	-0.5724 (962) P= .000	-0.2923 (961) P= .000	-0.0294 (800) P= .204

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
TMSPEED	.1603 (753) P= .000	.2264 (753) P= .000	.5326 (753) P= .000	-0.0168 (753) P= .323	1.0000 (753) P= .000	.1569 (753) P= .000	.0753 (750) P= .020	.0038 (647) P= .461	.3760 (752) P= .000	-0.3770 (752) P= .000	-0.0449 (752) P= .109
TMGRADE	.2115 (753) P= .000	.1631 (753) P= .000	.6406 (753) P= .000	-0.0477 (753) P= .096	.1569 (753) P= .000	1.0000 (753) P= .000	.1204 (750) P= .000	-0.0015 (647) P= .485	.4654 (752) P= .000	-0.4675 (752) P= .000	-0.0854 (752) P= .010
VC	.4155 (750) P= .000	.1324 (750) P= .000	.1613 (750) P= .000	.0369 (750) P= .157	.0753 (750) P= .020	.1204 (750) P= .000	1.0000 (1123) P= .000	.4973 (997) P= .000	-0.0757 (1123) P= .006	.0738 (1123) P= .007	.3588 (1123) P= .000
RLV	.0950 (647) P= .008	.0194 (647) P= .311	-0.0270 (647) P= .246	.0010 (647) P= .490	.0038 (647) P= .461	-0.0015 (647) P= .485	.4973 (997) P= .000	1.0000 (1000) P= .000	-0.0801 (1000) P= .006	.0785 (1000) P= .007	.2279 (1000) P= .000
MDEN	-0.0168 (752) P= .323	.0792 (752) P= .015	.5831 (752) P= .000	-0.0796 (752) P= .015	.3760 (752) P= .000	.4654 (752) P= .000	-0.0757 (1123) P= .006	-0.0801 (1000) P= .006	1.0000 (1126) P= .000	-0.9998 (1126) P= .000	.0796 (1126) P= .004
UWWPCBF	.0169 (752) P= .322	-0.0793 (752) P= .015	-0.5848 (752) P= .000	.0794 (752) P= .015	-0.3770 (752) P= .000	-0.4675 (752) P= .000	.0738 (1123) P= .007	.0785 (1000) P= .007	-0.9998 (1126) P= .000	1.0000 (1126) P= .000	-0.0786 (1126) P= .004
UWWLBM	.4621 (752) P= .000	-0.0239 (752) P= .258	-0.1118 (752) P= .001	-0.1728 (752) P= .000	-0.0449 (752) P= .109	-0.0854 (752) P= .010	.3588 (1123) P= .000	.2279 (1000) P= .000	.0796 (1126) P= .004	-0.0786 (1126) P= .004	1.0000 (1126) P= .000
UWWBF	.1567 (752) P= .000	-0.0927 (752) P= .012	-0.5969 (752) P= .000	.0265 (752) P= .234	-0.3746 (752) P= .000	-0.4841 (752) P= .000	.1641 (1123) P= .000	.1313 (1000) P= .000	-0.9436 (1126) P= .000	.9456 (1126) P= .000	.2151 (1126) P= .000
SUMS	.0774 (753) P= .017	-0.0896 (753) P= .007	-0.5248 (753) P= .000	-0.0192 (753) P= .299	-0.3267 (753) P= .000	-0.4127 (753) P= .000	-0.0216 (1122) P= .235	.0016 (999) P= .480	-0.7783 (1125) P= .000	.7793 (1125) P= .000	.1861 (1125) P= .000
DWPCBFEX	.0236 (751) P= .259	-0.0907 (751) P= .006	-0.5896 (751) P= .000	.0213 (751) P= .280	-0.3578 (751) P= .000	-0.4469 (751) P= .000	.0685 (1121) P= .011	.2618 (999) P= .000	-0.8001 (1124) P= .000	.7990 (1124) P= .000	.1410 (1124) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
TMSPEED	-0.3748 (752) P= .000	-0.3267 (753) P= .000	-0.3578 (751) P= .000	-0.3241 (753) P= .000	-0.3606 (748) P= .000	-0.3169 (749) P= .000	-0.1685 (749) P= .000	.2482 (749) P= .000	.2966 (671) P= .000	.3277 (557) P= .000	-0.3469 (556) P= .000
TMGRADE	-0.4841 (752) P= .000	-0.4127 (753) P= .000	-0.4469 (751) P= .000	-0.4113 (753) P= .000	-0.4518 (748) P= .000	-0.4068 (749) P= .000	-0.2229 (749) P= .000	.3229 (749) P= .000	.3368 (671) P= .000	.4191 (557) P= .000	-0.4383 (556) P= .000
VC	.1641 (1123) P= .000	-0.0216 (1122) P= .235	.0685 (1121) P= .011	-0.0259 (1122) P= .193	.0591 (1118) P= .024	-0.0012 (1119) P= .485	-0.1274 (1119) P= .000	.0887 (1119) P= .001	.0355 (986) P= .133	.0093 (861) P= .392	.0490 (859) P= .076
RLV	.1313 (1000) P= .000	.0016 (999) P= .480	.2816 (999) P= .000	-0.0002 (999) P= .498	.2508 (996) P= .000	.0096 (998) P= .381	-0.2409 (998) P= .000	.1693 (998) P= .000	.1165 (875) P= .000	-0.0182 (770) P= .307	.0335 (768) P= .177
MDEN	-0.9436 (1126) P= .000	-0.7783 (1125) P= .000	-0.8001 (1124) P= .000	-0.7742 (1125) P= .000	-0.7974 (1121) P= .000	-0.7803 (1122) P= .000	-0.2461 (1122) P= .000	.5594 (1122) P= .000	.5276 (989) P= .000	.6836 (863) P= .000	-0.7852 (861) P= .000
UWWPCBF	.9458 (1126) P= .000	.7793 (1125) P= .000	.7990 (1124) P= .000	.7753 (1125) P= .000	.7962 (1121) P= .000	.7797 (1122) P= .000	.2468 (1122) P= .000	-0.5595 (1122) P= .000	-0.5310 (989) P= .000	-0.6868 (863) P= .000	.7856 (861) P= .000
UWWLBM	.2151 (1126) P= .000	.1861 (1125) P= .000	.1410 (1124) P= .000	.1885 (1125) P= .000	.1422 (1121) P= .000	.1719 (1122) P= .000	.3012 (1122) P= .000	-0.2868 (1122) P= .000	-0.1764 (989) P= .000	-0.0244 (863) P= .237	.1748 (861) P= .000
UWWBF	1.0000 (1126) P= .000	.8191 (1125) P= .000	.8065 (1124) P= .000	.8162 (1125) P= .000	.8035 (1121) P= .000	.8030 (1122) P= .000	.3274 (1122) P= .000	-0.6098 (1122) P= .000	-0.5958 (989) P= .000	-0.7062 (863) P= .000	.8146 (861) P= .000
SUMS	.8191 (1125) P= .000	1.0000 (1127) P= .000	.8825 (1125) P= .000	.9973 (1127) P= .000	.8851 (1122) P= .000	.9805 (1123) P= .000	.3460 (1123) P= .000	-0.6094 (1123) P= .000	-0.5718 (990) P= .000	-0.6691 (864) P= .000	.7882 (862) P= .000
DWPCBFEX	.8065 (1124) P= .000	.8825 (1125) P= .000	1.0000 (1126) P= .000	.8793 (1125) P= .000	.9956 (1123) P= .000	.8939 (1122) P= .000	.2416 (1122) P= .000	-0.5571 (1122) P= .000	-0.4460 (990) P= .000	-0.5872 (865) P= .000	.7514 (863) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
TMSPEED	-0.0815	.0775	-0.0242	.0321	-0.0567	.1959	.1732	-0.4102	.2535	.	.
	(237)	(237)	(236)	(237)	(236)	(222)	(222)	(224)	(227)	(237)	(237)
	P= .106	P= .117	P= .356	P= .311	P= .193	P= .002	P= .005	P= .000	P= .000	P= .	P= .
TMGRADE	-0.0901	.0045	-0.0206	.1073	.0459	.3144	.2174	-0.5090	.3406	.	.
	(237)	(237)	(236)	(237)	(236)	(222)	(222)	(224)	(227)	(237)	(237)
	P= .083	P= .473	P= .376	P= .050	P= .241	P= .000	P= .001	P= .000	P= .000	P= .	P= .
VC	-0.0504	.0946	-0.0144	.0026	.0407	.0843	.0421	-0.1318	.0848	.	.
	(265)	(265)	(264)	(265)	(264)	(249)	(249)	(248)	(250)	(265)	(265)
	P= .207	P= .062	P= .408	P= .463	P= .255	P= .092	P= .254	P= .019	P= .154	P= .	P= .
RLV	.0857	.1673	-0.0174	-0.0186	-0.0215	-0.0459	-0.1001	-0.0436	.0044	.	.
	(260)	(260)	(259)	(260)	(259)	(245)	(245)	(244)	(248)	(260)	(260)
	P= .084	P= .003	P= .390	P= .383	P= .365	P= .237	P= .059	P= .249	P= .473	P= .	P= .
MDEN	-0.2209	-0.0198	-0.0048	.0237	-0.0815	.2639	.3624	-0.4215	.3018	.	.
	(266)	(266)	(265)	(266)	(265)	(250)	(250)	(249)	(251)	(266)	(266)
	P= .000	P= .374	P= .469	P= .350	P= .093	P= .000	P= .000	P= .000	P= .000	P= .	P= .
UWWPCBF	.2212	.0187	.0042	-0.0236	.0810	-0.2673	-0.3626	.4226	-0.3035	.	.
	(266)	(266)	(265)	(266)	(265)	(250)	(250)	(249)	(251)	(266)	(266)
	P= .000	P= .381	P= .473	P= .351	P= .094	P= .000	P= .000	P= .000	P= .000	P= .	P= .
UWWLBM	-0.0563	.0632	.0402	-0.1278	.0276	.0583	-0.0708	-0.0533	.0180	.	.
	(266)	(266)	(265)	(266)	(265)	(250)	(250)	(249)	(251)	(266)	(266)
	P= .180	P= .152	P= .257	P= .019	P= .327	P= .179	P= .132	P= .201	P= .388	P= .	P= .
UWWBF	.1979	.0346	.0169	-0.0492	.0836	-0.2553	-0.3745	.4024	-0.2987	.	.
	(266)	(266)	(265)	(266)	(265)	(250)	(250)	(249)	(251)	(266)	(266)
	P= .001	P= .287	P= .392	P= .212	P= .087	P= .000	P= .000	P= .000	P= .000	P= .	P= .
SUMS	.1248	-0.0152	.0491	-0.1263	-0.0081	-0.2308	-0.2635	.3535	-0.2539	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .020	P= .402	P= .211	P= .019	P= .447	P= .000	P= .000	P= .000	P= .000	P= .	P= .
DWPCBFEX	.1588	.0081	.0607	-0.1247	.0110	-0.2307	-0.2767	.3385	-0.2139	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .004	P= .447	P= .160	P= .020	P= .429	P= .000	P= .000	P= .000	P= .000	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
TMSPEED	-0.0140	-0.0842	-0.1879	-0.2597	-0.2302	-0.2117	-0.1863	-0.2096	-0.2443	-0.1977	-0.1462
	(237)	(237)	(237)	(237)	(237)	(236)	(237)	(237)	(237)	(237)	(237)
	P= .415	P= .098	P= .002	P= .000	P= .000	P= .001	P= .002	P= .001	P= .000	P= .001	P= .012
TMGRADE	.0008	-0.2129	-0.2405	-0.3862	-0.4208	-0.3141	-0.3027	-0.[illegible]	-0.2938	-0.3106	-0.1829
	(237)	(237)	(237)	(237)	(237)	(236)	(237)	([illegible]	(237)	(237)	(237)
	P= .495	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .0[illegible]	P= .000	P= .000	P= .002
VC	-0.2717	.1427	-0.0038	-0.0606	-0.0266	-0.0798	-0.0509	-0.0777	-0.0078	.0270	-0.0035
	(265)	(265)	(265)	(265)	(265)	(264)	(265)	(265)	(265)	(265)	(265)
	P= .000	P= .010	P= .476	P= .163	P= .333	P= .099	P= .204	P= .104	P= .451	P= .331	P= .477
RLV	-0.2307	-0.0190	-0.0883	-0.1251	-0.1394	-0.1902	-0.1974	-0.1993	-0.1440	-0.0424	-0.1246
	(260)	(260)	(260)	(260)	(260)	(259)	(260)	(260)	(260)	(260)	(260)
	P= .000	P= .380	P= .078	P= .022	P= .012	P= .001	P= .001	P= .001	P= .010	P= .248	P= .022
MDEN	.0606	-0.5536	-0.4728	-0.6485	-0.6838	-0.5957	-0.5836	-0.5411	-0.5792	-0.5987	-0.2595
	(266)	(266)	(266)	(266)	(266)	(265)	(266)	(266)	(266)	(266)	(266)
	P= .162	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
UWWPCBF	-0.0604	.5572	.4754	.6522	.6858	.5991	.5871	.5440	.5801	.5984	.2617
	(266)	(266)	(266)	(266)	(266)	(265)	(266)	(266)	(266)	(266)	(266)
	P= .163	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
UWWLBM	-0.0518	.0431	.0101	.1205	.1510	.0691	.0811	.0628	.0852	.0719	.0383
	(266)	(266)	(266)	(266)	(266)	(265)	(266)	(266)	(266)	(266)	(266)
	P= .200	P= .242	P= .435	P= .025	P= .007	P= .131	P= .094	P= .154	P= .083	P= .121	P= .267
UWWBF	-0.0737	.5681	.4800	.6909	.7244	.6199	.6037	.5580	.5933	.6017	.2787
	(266)	(266)	(266)	(266)	(266)	(265)	(266)	(266)	(266)	(266)	(266)
	P= .115	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SUMS	-0.0122	.6747	.4846	.8239	.8405	.7788	.8972	.8[illegible]4	.8221	.6900	.3969
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	([illegible]1)	(271)	(271)	(271)
	P= .421	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
DWPCBFEX	-0.0368	.6760	.4846	.7954	.8234	.7503	.8696	.8581	.8337	.6982	.3802
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .273	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
TMSPEED	-0.2063	-0.2220	-0.0369	-0.0953	-0.1041	-0.1542	-0.1577	-0.2162	-0.2151	-0.1764	-0.1415
	(237)	(237)	(236)	(237)	(236)	(236)	(236)	(236)	(237)	(237)	(237)
	P= .001	P= .000	P= .286	P= .072	P= .055	P= .009	P= .008	P= .000	P= .000	P= .003	P= .015
TMGRADE	-0.3450	-0.3527	-0.0098	-0.1398	-0.2984	-0.3438	-0.3097	-0.3047	-0.2297	-0.3328	-0.1594
	(237)	(237)	(236)	(237)	(236)	(236)	(236)	(236)	(237)	(237)	(237)
	P= .000	P= .000	P= .441	P= .016	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .007
VC	.0828	.0170	.0009	.3583	.3515	.2299	.2309	.1918	.0802	.1738	.3103
	(265)	(265)	(264)	(264)	(264)	(264)	(264)	(264)	(265)	(265)	(265)
	P= .089	P= .392	P= .494	P= .000	P= .000	P= .000	P= .000	P= .002	P= .097	P= .002	P= .000
RLV	-0.1042	-0.0552	.0581	.0806	.1149	.0367	.0387	.0207	-0.1247	-0.0300	.0194
	(260)	(260)	(259)	(259)	(259)	(259)	(259)	(259)	(260)	(260)	(260)
	P= .047	P= .188	P= .176	P= .098	P= .032	P= .278	P= .268	P= .370	P= .022	P= .315	P= .378
MDEN	-0.5711	-0.5803	.0395	-0.3485	-0.5025	-0.5375	-0.5669	-0.6369	-0.5502	-0.5423	-0.2288
	(266)	(266)	(265)	(265)	(265)	(265)	(265)	(265)	(266)	(266)	(266)
	P= .000	P= .000	P= .261	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
UWWPCBF	.5727	.5832	-0.0369	.3523	.5077	.5427	.5713	.6393	.5483	.5468	.2316
	(266)	(266)	(265)	(265)	(265)	(265)	(265)	(265)	(266)	(266)	(266)
	P= .000	P= .000	P= .275	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
UWWLBM	.1827	.0800	.2800	.5914	.4427	.4514	.4498	.5193	.4002	.4989	.6106
	(266)	(266)	(265)	(265)	(265)	(265)	(265)	(265)	(266)	(266)	(266)
	P= .001	P= .097	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
UWWBF	.6192	.6006	.0807	.5526	.6868	.7098	.7352	.8162	.6747	.7151	.4381
	(266)	(266)	(265)	(265)	(265)	(265)	(265)	(265)	(266)	(266)	(266)
	P= .000	P= .000	P= .095	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
SUMS	.6471	.7763	-0.0489	.4386	.5628	.5795	.6600	.6176	.4322	.6833	.3330
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .212	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
DWPCBFEX	.6202	.7537	-0.0974	.4261	.5519	.5479	.6323	.6093	.4423	.6567	.3125
	(271)	(271)	(270)	(270)	(270)	(270)	(270)	(270)	(271)	(271)	(271)
	P= .000	P= .000	P= .055	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
TMSPEED	.0685 (237) P= .147	-0.0535 (237) P= .206	-0.1827 (237) P= .002	-0.0561 (237) P= .199	-0.0531 (236) P= .209	-0.1148 (235) P= .040	.0718 (237) P= .138	.1011 (237) P= .060	-0.1824 (237) P= .002	.0591 (237) P= .183	-0.0365 (237) P= .288
TMGRADE	.0992 (237) P= .064	-0.2048 (237) P= .001	-0.2642 (237) P= .000	-0.1017 (237) P= .059	-0.0575 (236) P= .190	-0.2043 (235) P= .001	-0.2046 (237) P= .001	.0373 (237) P= .284	-0.2599 (237) P= .000	-0.1132 (237) P= .041	-0.1578 (237) P= .008
VC	.1951 (265) P= .001	.2633 (265) P= .000	.2220 (265) P= .000	.3545 (265) P= .000	.2757 (264) P= .000	.2110 (262) P= .000	.1320 (265) P= .018	.4802 (265) P= .000	.3677 (265) P= .000	.1456 (265) P= .009	.1852 (265) P= .004
RLV	.0448 (260) P= .236	.1208 (260) P= .026	.0123 (260) P= .422	.1035 (260) P= .048	.1235 (259) P= .024	.0305 (258) P= .313	.3338 (260) P= .000	.5040 (260) P= .000	.1314 (260) P= .017	.0929 (260) P= .068	-0.0141 (260) P= .410
MOEN	.0803 (266) P= .096	-0.3886 (266) P= .000	-0.4540 (266) P= .000	-0.2609 (266) P= .000	-0.1394 (265) P= .012	-0.4457 (263) P= .000	-0.2071 (266) P= .000	.1397 (266) P= .011	-0.5424 (266) P= .000	.0188 (266) P= .380	-0.2306 (266) P= .000
UWWPCBF	-0.0788 (266) P= .100	.3904 (266) P= .000	.4563 (266) P= .000	.2620 (266) P= .000	.1417 (265) P= .011	.4500 (263) P= .000	.2104 (266) P= .000	-0.1399 (266) P= .011	.5458 (266) P= .000	-0.0151 (266) P= .403	.2350 (266) P= .000
UWWLBM	.3237 (266) P= .000	.5000 (266) P= .000	.4846 (266) P= .000	.5288 (266) P= .000	.4902 (265) P= .000	.5125 (263) P= .000	.0410 (266) P= .253	.6889 (266) P= .000	.7575 (266) P= .000	.3750 (266) P= .000	.4123 (266) P= .000
UWWBF	.0412 (266) P= .252	.5877 (266) P= .000	.6257 (266) P= .000	.4461 (266) P= .000	.3185 (265) P= .000	.6264 (263) P= .000	.2229 (266) P= .000	.1004 (266) P= .051	.8119 (266) P= .000	.1248 (266) P= .021	.3817 (266) P= .000
SUMS	.0190 (271) P= .378	.4007 (271) P= .000	.4508 (271) P= .000	.2988 (271) P= .000	.2718 (270) P= .000	.5908 (268) P= .000	.0988 (271) P= .052	-0.0684 (271) P= .131	.5813 (271) P= .000	.2442 (271) P= .000	.4595 (271) P= .000
DWPCBFEX	.0235 (271) P= .350	.3961 (271) P= .000	.4309 (271) P= .000	.2863 (271) P= .000	.2581 (270) P= .000	.5655 (268) P= .000	.1670 (271) P= .003	-0.0520 (271) P= .197	.5688 (271) P= .000	.2104 (271) P= .000	.4198 (271) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
TMSPEED	-0.0570	-0.0270	-0.1373	.0507	-0.0169	.0313	-0.0851	.2340	.4872	-0.0710	.0561
	(236)	(237)	(237)	(237)	(237)	(237)	(236)	(237)	(237)	(237)	(234)
	P= .192	P= .340	P= .017	P= .218	P= .398	P= .318	P= .098	P= .000	P= .000	P= .138	P= .197
TMGRADE	-0.1347	-0.2017	-0.1610	.0335	-0.2104	-0.0035	-0.0050	.2821	.6132	.1055	.0960
	(236)	(237)	(237)	(237)	(237)	(237)	(236)	(237)	(237)	(237)	(234)
	P= .019	P= .001	P= .007	P= .304	P= .001	P= .105	P= .464	P= .000	P= .000	P= .053	P= .085
VC	.1308	.1232	.1932	.3200	.1692	.1782	.2455	.5674	.1993	-0.0295	.3132
	(264)	(265)	(265)	(265)	(265)	(265)	(264)	(231)	(232)	(232)	(237)
	P= .017	P= .023	P= .001	P= .000	P= .003	P= .002	P= .000	P= .000	P= .001	P= .327	P= .000
RLV	.0624	.0622	.1169	.2488	-0.0294	.1534	.1979	.1972	.0809	-0.0368	.1698
	(259)	(260)	(260)	(260)	(260)	(260)	(259)	(226)	(227)	(227)	(232)
	P= .271	P= .159	P= .031	P= .000	P= .319	P= .007	P= .001	P= .001	P= .441	P= .291	P= .040
MDEN	-0.2463	-0.2619	-0.2781	.0980	-0.1631	.0699	.0382	-0.0735	.5651	.1263	.0853
	(265)	(266)	(266	(266)	(266)	(266)	(265)	(232)	(233)	(233)	(238)
	P= .000	P= .000	P= .000	P= .055	P= .005	P= .436	P= .279	P= .132	P= .000	P= .027	P= .095
UWWPCBF	.2501	.2650	.2802	-0.0059	.1632	-0.0067	-0.0342	.0734	-0.5660	-0.1296	-0.0856
	(265)	(266)	(266)	(266)	(266)	(266)	(265)	(232)	(233)	(233)	(238)
	P= .000	P= .000	P= .000	P= .059	P= .004	P= .457	P= .289	P= .133	P= .000	P= .024	P= .094
UWWLBM	.2069	.2017	.4383	.5240	.2598	.2974	.5845	.7179	-0.0865	.0480	.3853
	(265)	(266)	(266)	(266)	(266)	(266)	(266)	(232)	(233)	(233)	(238)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .094	P= .242	P= .000
UWWBF	.3282	.3731	.4323	.0884	.2638	.1030	.1440	.3153	-0.0793	-0.1240	.0574
	(265)	(266)	(266)	(266)	(266)	(266)	(265)	(232)	(233)	(233)	(238)
	P= .000	P= .000	P= .000	P= .080	P= .000	P= .047	P= .010	P= .000	P= .000	P= .029	P= .189
SUMC	.4031	.4435	.3814	-0.0234	.3891	.0912	.1353	.1431	-0.4093	-0.0895	.0228
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .351	P= .000	P= .067	P= .013	P= .014	P= .000	P= .084	P= .363
DWPCBFEX	.3650	.4158	.3414	-0.0378	.3485	.0818	.1495	.1631	-0.4799	-0.1048	.0469
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .268	P= .000	P= .155	P= .007	P= .006	P= .000	P= .053	P= .233

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
TMSPEED	.1405 (237) P= .016	.1775 (237) P= .003	.5005 (237) P= .000	-0.0581 (237) P= .186	1.0000 (237) P= .000	.0690 (237) P= .145	.1832 (231) P= .003	.1541 (226) P= .010	.3759 (232) P= .000	-0.3758 (232) P= .000	.0666 (232) P= .156
TMGRADE	.2124 (237) P= .001	.1388 (237) P= .016	.5791 (237) P= .000	-0.0142 (237) P= .414	.0690 (237) P= .145	1.0000 (237) P= .000	.1066 (231) P= .053	-0.0220 (226) P= .371	.3349 (232) P= .000	-0.3373 (232) P= .000	-0.0493 (232) P= .227
VC	.3168 (231) P= .000	.0946 (231) P= .076	.2227 (231) P= .000	-0.1759 (231) P= .004	.1832 (231) P= .003	.1066 (231) P= .053	1.0000 (265) P= .000	.4883 (259) P= .000	.0257 (265) P= .338	-0.0250 (265) P= .342	.4663 (265) P= .000
RLV	.1548 (226) P= .010	.1269 (226) P= .028	.0761 (226) P= .127	-0.0002 (226) P= .499	.1541 (226) P= .010	-0.0220 (226) P= .371	.4883 (259) P= .000	1.0000 (260) P= .000	.1873 (260) P= .001	-0.1862 (260) P= .001	.3098 (260) P= .000
MDEN	.0136 (232) P= .418	.0552 (232) P= .201	.4961 (232) P= .000	.0856 (232) P= .097	.3759 (232) P= .000	.3349 (232) P= .000	.0257 (265) P= .338	.1873 (260) P= .001	1.0000 (266) P= .000	-0.9998 (266) P= .000	.1259 (266) P= .020
UWWPCBF	-0.0122 (232) P= .427	-0.0560 (232) P= .198	-0.4973 (232) P= .000	-0.0839 (232) P= .102	-0.3758 (232) P= .000	-0.3373 (232) P= .000	-0.0250 (265) P= .342	-0.1862 (260) P= .001	-0.9998 (266) P= .000	1.0000 (266) P= .000	-0.1236 (266) P= .022
UWWLBM	.4996 (232) P= .000	.0528 (232) P= .212	-0.0492 (232) P= .228	-0.1350 (232) P= .020	.0666 (232) P= .156	-0.0493 (232) P= .227	.4663 (265) P= .000	.3098 (260) P= .000	.1259 (266) P= .020	-0.1236 (266) P= .022	1.0000 (266) P= .000
UWWBF	.1691 (232) P= .005	-0.0408 (232) P= .269	-0.4991 (232) P= .000	-0.1145 (232) P= .041	-0.3329 (232) P= .000	-0.3560 (232) P= .000	.1303 (265) P= .017	-0.0808 (260) P= .097	-0.9204 (266) P= .000	.9235 (266) P= .000	.2338 (266) P= .000
SUMS	.0108 (237) P= .434	-0.0189 (237) P= .386	-0.4268 (237) P= .000	-0.1509 (237) P= .010	-0.2689 (237) P= .000	-0.4134 (237) P= .000	-0.0549 (265) P= .187	-0.1717 (260) P= .003	-0.7207 (266) P= .000	.7240 (266) P= .000	.1197 (266) P= .028
DWPCBFEX	-0.0132 (237) P= .420	-0.0130 (237) P= .421	-0.4059 (237) P= .000	-0.1988 (237) P= .001	-0.2451 (237) P= .000	-0.3899 (237) P= .000	-0.0292 (265) P= .318	-0.1289 (260) P= .019	-0.7205 (266) P= .000	.7213 (266) P= .000	.1212 (266) P= .024

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
TMSPEED	-0.3329 (232) P= .000	-0.2689 (237) P= .000	-0.2451 (237) P= .000	-0.2685 (237) P= .000	-0.2488 (237) P= .000	-0.2661 (237) P= .000	-0.2061 (237) P= .001	.2551 (237) P= .000	.1854 (212) P= .003	.2464 (191) P= .000	-0.2967 (189) P= .000
TMGRADE	-0.3560 (232) P= .000	-0.4134 (237) P= .000	-0.3899 (237) P= .000	-0.4070 (237) P= .000	-0.3741 (237) P= .000	-0.3836 (237) P= .000	-0.2528 (237) P= .000	.2537 (237) P= .000	.3358 (212) P= .000	.3574 (191) P= .000	-0.3729 (189) P= .000
VC	.1303 (265) P= .017	-0.0549 (265) P= .187	-0.0292 (265) P= .318	-0.0505 (265) P= .206	-0.0032 (264) P= .480	-0.0576 (265) P= .175	-0.0767 (265) P= .107	.0159 (265) P= .398	.0938 (235) P= .076	.0656 (212) P= .171	.0173 (210) P= .402
RLV	-0.0808 (260) P= .097	-0.1717 (260) P= .003	-0.1289 (260) P= .019	-0.1703 (260) P= .003	-0.0975 (259) P= .059	-0.1817 (260) P= .002	-0.2558 (260) P= .000	.2951 (260) P= .000	.2366 (229) P= .000	.1414 (208) P= .021	-0.2177 (206) P= .001
MDEN	-0.9204 (266) P= .000	-0.7207 (266) P= .000	-0.7205 (266) P= .000	-0.7179 (266) P= .000	-0.7030 (265) P= .000	-0.7058 (266) P= .000	-0.4573 (266) P= .000	.6349 (266) P= .000	.4666 (235) P= .000	.6031 (213) P= .000	-0.7302 (211) P= .000
UWWPCBF	.9235 (266) P= .000	.7240 (266) P= .000	.7213 (266) P= .000	.7211 (266) P= .000	.7034 (265) P= .000	.7072 (266) P= .000	.4621 (266) P= .000	-0.6344 (266) P= .000	-0.4731 (235) P= .000	-0.6093 (213) P= .000	.7324 (211) P= .000
UWWLBM	.2338 (266) P= .000	.1197 (266) P= .026	.1212 (266) P= .024	.1239 (266) P= .022	.1626 (265) P= .004	.1308 (266) P= .016	.1076 (266) P= .040	-0.1879 (266) P= .001	-0.1746 (235) P= .004	-0.1325 (213) P= .027	.1803 (211) P= .004
UWWBF	1.0000 (266) P= .000	.7553 (266) P= .000	.7374 (266) P= .000	.7543 (266) P= .000	.7239 (265) P= .000	.7324 (266) P= .000	.5033 (266) P= .000	-0.6666 (266) P= .000	-0.5746 (235) P= .000	-0.6822 (213) P= .000	.7827 (211) P= .000
SUMS	.7553 (266) P= .000	1.0000 (271) P= .000	.9712 (271) P= .000	.9976 (271) P= .000	.9652 (270) P= .000	.9747 (271) P= .000	.4827 (271) P= .000	-0.6037 (271) P= .000	-0.5024 (239) P= .000	-0.6474 (218) P= .000	.6902 (216) P= .000
DWPCBFEX	.7374 (266) P= .000	.9712 (271) P= .000	1.0000 (271) P= .000	.9694 (271) P= .000	.9947 (270) P= .000	.9755 (271) P= .000	.4422 (271) P= .000	-0.6078 (271) P= .000	-0.4532 (239) P= .000	-0.6164 (218) P= .000	.6784 (216) P= .000

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	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
SUMSA	.2616	.1846	.0425	.0293	.1056	-0.3319	-0.3370	.4232	-0.3624	.	.
	(1125)	(1127)	(1111)	(1116)	(1108)	(1012)	(1013)	(1005)	(833)	(1127)	(1127)
	P= .000	P= .000	P= .078	P= .164	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
DWPCBF	.5625	.4978	.0043	.0046	.3091	-0.4464	-0.4858	.4722	-0.3751	.	.
	(1121)	(1123)	(1107)	(1112)	(1104)	(1009)	(1009)	(1001)	(828)	(1123)	(1123)
	P= .000	P= .000	P= .443	P= .439	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
ENDO	.2660	.2004	.0322	.0170	.1098	-0.3338	-0.3429	.4112	-0.3554	.	.
	(1122)	(1124)	(1108)	(1113)	(1105)	(1010)	(1010)	(1002)	(829)	(1124)	(1124)
	P= .000	P= .000	P= .142	P= .286	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .
MESO	.0175	-0.0633	.0352	-0.0004	-0.0552	-0.0244	.0611	.1487	-0.0815	.	.
	(1122)	(1124)	(1108)	(1113)	(1105)	(1010)	(1010)	(1002)	(829)	(1124)	(1124)
	P= .279	P= .017	P= .121	P= .495	P= .033	P= .219	P= .026	P= .000	P= .009	P= .	P= .
ECTO	-0.2024	-0.1286	-0.0573	-0.0198	-0.0562	.1747	.1216	-0.2987	.1828	.	.
	(1122)	(1124)	(1108)	(1113)	(1105)	(1010)	(1010)	(1002)	(829)	(1124)	(1124)
	P= .000	P= .000	P= .028	P= .255	P= .031	P= .000	P= .000	P= .000	P= .000	P= .	P= .
AVUNIR	-0.0659	.0595	-0.0853	-0.0506	.0183	.2081	.1550	-0.3366	.3029	.	.
	(989)	(991)	(978)	(984)	(972)	(897)	(896)	(889)	(741)	(991)	(991)
	P= .019	P= .030	P= .004	P= .056	P= .285	P= .000	P= .000	P= .000	P= .000	P= .	P= .
AVSSR	-0.2630	-0.1151	-0.0325	-0.0805	-0.0912	.3505	.3425	-0.4387	.3953	.	.
	(863)	(865)	(851)	(856)	(852)	(773)	(771)	(768)	(614)	(865)	(865)
	P= .000	P= .000	P= .172	P= .009	P= .004	P= .000	P= .000	P= .000	P= .000	P= .	P= .
KR.TING	.3292	.2211	.0241	.0412	.1462	-0.3645	-0.3401	.4401	-0.3792	.	.
	(861)	(863)	(849)	(854)	(850)	(771)	(769)	(766)	(613)	(863)	(863)
	P= .000	P= .000	P= .242	P= .114	P= .000	P= .000	P= .000	P= .000	P= .000	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (MALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
SUMSA	-0.0371 (1127) P= .107	.6330 (1127) P= .000	.7778 (1127) P= .000	.8853 (1127) P= .000	.7929 (1127) P= .000	.8703 (1127) P= .000	.9152 (1127) P= .000	.9365 (1127) P= .000	.8550 (1127) P= .000	.6739 (1126) P= .000	.4295 (1127) P= .000
DWPCBF	-0.1050 (1123) P= .000	.6832 (1122) P= .000	.7716 (1122) P= .000	.7779 (1122) P= .000	.6738 (1122) P= .000	.8079 (1122) P= .000	.8205 (1122) P= .000	.8517 (1122) P= .000	.8628 (1122) P= .000	.5967 (1121) P= .000	.3042 (1122) P= .000
ENDO	-0.0569 (1124) P= .028	.6220 (1123) P= .000	.7510 (1123) P= .000	.8582 (1123) P= .000	.7744 (1123) P= .000	.8525 (1123) P= .000	.9123 (1123) P= .000	.9467 (1123) P= .000	.8743 (1123) P= .000	.6630 (1122) P= .000	.4104 (1123) P= .000
MESO	.1217 (1124) P= .000	.1598 (1123) P= .000	.2784 (1123) P= .000	.3848 (1123) P= .000	.2485 (1123) P= .000	.3172 (1123) P= .000	.3043 (1123) P= .000	.2862 (1123) P= .000	.3347 (1123) P= .000	.2289 (1122) P= .000	.2720 (1123) P= .000
ECTO	-0.0560 (1124) P= .030	-0.4327 (1123) P= .000	-0.5403 (1123) P= .000	-0.5918 (1123) P= .000	-0.4265 (1123) P= .000	-0.5892 (1123) P= .000	-0.5842 (1123) P= .000	-0.5689 (1123) P= .000	-0.6462 (1123) P= .000	-0.4052 (1122) P= .000	-0.3352 (1123) P= .000
AVUNIR	.0349 (991) P= .136	-0.3989 (990) P= .000	-0.5394 (990) P= .000	-0.5527 (990) P= .000	-0.4306 (990) P= .000	-0.5837 (990) P= .000	-0.5485 (990) P= .000	-0.5070 (990) P= .000	-0.5086 (990) P= .000	-0.4090 (989) P= .000	-0.2931 (990) P= .000
AVSSR	.0619 (865) P= .034	-0.5086 (864) P= .000	-0.6556 (864) P= .000	-0.6211 (864) P= .000	-0.4898 (864) P= .000	-0.6825 (864) P= .000	-0.6530 (864) P= .000	-0.6293 (864) P= .000	-0.6448 (864) P= .000	-0.4971 (863) P= .000	-0.2627 (864) P= .000
KRATING	-0.1029 (863) P= .001	.5865 (862) P= .000	.7334 (862) P= .000	.7181 (862) P= .000	.5841 (862) P= .000	.7770 (862) P= .000	.7621 (862) P= .000	.7557 (862) P= .000	.8030 (862) P= .000	.5614 (861) P= .000	.3213 (862) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
SUMSA	.5974 (1126) P= .000	.7647 (1126) P= .000	.2572 (1126) P= .000	.4881 (1126) P= .000	.5945 (1125) P= .000	.7570 (1128) P= .000	.7810 (1127) P= .000	.6817 (1126) P= .000	.4519 (1124) P= .000	.5119 (1127) P= .000	.3181 (1126) P= .000
DWPCBF	.4684 (1121) P= .000	.6534 (1121) P= .000	.2911 (1122) P= .000	.4121 (1122) P= .000	.5774 (1121) P= .000	.7419 (1122) P= .000	.7696 (1123) P= .000	.5982 (1122) P= .000	.3700 (1120) P= .000	.4148 (1123) P= .000	.2335 (1122) P= .000
ENDO	.5911 (1122) P= .000	.6852 (1122) P= .000	.2654 (1123) P= .000	.4666 (1123) P= .000	.5760 (1122) P= .000	.7416 (1123) P= .000	.7674 (1124) P= .000	.6649 (1123) P= .000	.4338 (1121) P= .000	.4850 (1124) P= .000	.2992 (1123) P= .000
MESO	.2388 (1122) P= .000	.2707 (1122) P= .000	.1466 (1123) P= .000	.4699 (1123) P= .000	.4633 (1122) P= .000	.4389 (1123) P= .000	.4047 (1124) P= .000	.4298 (1123) P= .000	.5329 (1121) P= .000	.6568 (1124) P= .000	.5041 (1123) P= .000
ECTO	-0.3860 (1122) P= .000	-0.4526 (1122) P= .000	-0.2264 (1123) P= .000	-0.5403 (1123) P= .000	-0.6221 (1122) P= .000	-0.6834 (1123) P= .000	-0.6575 (1124) P= .000	-0.6012 (1123) P= .000	-0.5818 (1121) P= .000	-0.6221 (1124) P= .000	-0.4527 (1123) P= .000
AVUNIR	-0.3877 (989) P= .000	-0.4847 (989) P= .000	-0.1116 (990) P= .000	-0.3912 (990) P= .000	-0.5403 (989) P= .000	-0.6204 (990) P= .000	-0.6160 (991) P= .000	-0.5617 (991) P= .000	-0.3909 (988) P= .000	-0.4218 (991) P= .000	-0.3267 (990) P= .000
AVSSR	-0.4115 (863) P= .000	-0.5117 (863) P= .000	-0.1595 (864) P= .000	-0.3131 (864) P= .000	-0.5014 (863) P= .000	-0.6640 (864) P= .000	-0.6912 (865) P= .000	-0.5336 (865) P= .000	-0.3232 (863) P= .000	-0.2487 (865) P= .000	-0.1548 (864) P= .000
KRATING	.5015 (861) P= .000	.5662 (861) P= .000	.2402 (862) P= .000	.4597 (862) P= .000	.6602 (861) P= .000	.8110 (862) P= .000	.8269 (863) P= .000	.6832 (863) P= .000	.4958 (861) P= .000	.4535 (863) P= .000	.3020 (862) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
SUMSA	.2245 (1126) P= .000	.3769 (1127) P= .000	.4508 (1127) P= .000	.2625 (1124) P= .000	.4093 (1125) P= .000	.4160 (1127) P= .000	.2538 (1127) P= .000	.0725 (1123) P= .008	.6426 (1127) P= .000	.0838 (1127) P= .002	.3011 (1127) P= .000
DWPCBF	.1972 (1122) P= .000	.3355 (1123) P= .000	.3831 (1123) P= .000	.1913 (1120) P= .000	.3629 (1121) P= .000	.3310 (1123) P= .000	.6044 (1123) P= .000	.1316 (1119) P= .000	.6048 (1123) P= .000	.1412 (1123) P= .000	.2568 (1123) P= .000
ENDO	.2128 (1123) P= .000	.3684 (1124) P= .000	.4407 (1124) P= .000	.2599 (1121) P= .000	.3925 (1122) P= .000	.3885 (1124) P= .000	.2599 (1124) P= .000	.0697 (1124) P= .010	.6216 (1124) P= .000	.0969 (1124) P= .001	.2992 (1124) P= .000
MESO	.2628 (1123) P= .000	.3223 (1124) P= .000	.5849 (1124) P= .000	.2883 (1121) P= .000	.4097 (1122) P= .000	.6188 (1124) P= .000	-0.0007 (1124) P= .490	-0.3379 (1124) P= .000	.4083 (1124) P= .000	-0.0646 (1124) P= .015	.2336 (1124) P= .000
ECTO	-0.2151 (1123) P= .000	-0.3408 (1124) P= .000	-0.5146 (1124) P= .000	-0.2427 (1121) P= .000	-0.4810 (1122) P= .000	-0.5945 (1124) P= .000	-0.1962 (1124) P= .000	.3114 (1124) P= .000	-0.5725 (1124) P= .000	.0417 (1124) P= .081	-0.2395 (1124) P= .000
AVUNIR	-0.1787 (990) P= .000	-0.2608 (991) P= .000	-0.4055 (991) P= .000	-0.2204 (988) P= .000	-0.3597 (991) P= .000	-0.3711 (991) P= .000	-0.0729 (991) P= .011	.1130 (987) P= .000	-0.5000 (991) P= .000	.0363 (991) P= .127	-0.2033 (991) P= .000
AVSSR	-0.1095 (864) P= .001	-0.2484 (865) P= .000	-0.3034 (865) P= .000	-0.1594 (862) P= .000	-0.2621 (863) P= .000	-0.2029 (865) P= .000	-0.2451 (865) P= .000	.0167 (861) P= .313	-0.4308 (865) P= .000	.0704 (865) P= .019	-0.1103 (865) P= .001
KRATING	.1743 (862) P= .000	.3720 (863) P= .000	.4524 (863) P= .000	.2406 (860) P= .000	.3936 (861) P= .000	.3932 (863) P= .000	.3226 (863) P= .000	-0.0202 (859) P= .277	.6406 (863) P= .000	-0.0241 (863) P= .240	.2116 (863) P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	ILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
SUMSA	.2412 (1125) P= .000	.2426 (1127) P= .000	.2557 (1127) P= .000	.0242 (1126) P= .208	.3102 (1125) P= .000	.1215 (1124) P= .000	.2187 (1126) P= .000	.1168 (753) P= .001	-0.5599 (963) P= .000	-0.1281 (961) P= .000	.0377 (802) P= .143
DWPCBF	.3295 (1121) P= .000	.2827 (1123) P= .000	.1895 (1123) P= .000	.0716 (1122) P= .008	.3672 (1121) P= .000	.1342 (1120) P= .000	.2609 (1122) P= .000	.0141 (748) P= .351	-0.5758 (959) P= .000	-0.2869 (958) P= .000	-0.0330 (797) P= .176
ENDO	.2585 (1122) P= .000	.2538 (1124) P= .000	.2356 (1124) P= .000	.0257 (1123) P= .194	.3175 (1122) P= .000	.1234 (1121) P= .000	.2176 (1123) P= .000	.1075 (749) P= .002	-0.5477 (960) P= .000	-0.1191 (958) P= .000	.0441 (799) P= .107
MESO	-0.0695 (1122) P= .010	-0.0273 (1124) P= .180	.5055 (1124) P= .000	.1108 (1123) P= .000	.0981 (1122) P= .000	.2586 (1121) P= .000	.1701 (1123) P= .000	.2558 (749) P= .000	-0.2177 (960) P= .000	-0.0572 (958) P= .038	.3301 (799) P= .000
ECTO	-0.0261 (1122) P= .192	-0.0242 (1124) P= .209	-0.2510 (1124) P= .000	-0.0427 (1123) P= .076	-0.2186 (1122) P= .000	-0.0990 (1121) P= .000	-0.1186 (1123) P= .000	-0.2139 (749) P= .000	.4211 (960) P= .000	.1251 (958) P= .000	-0.2449 (799) P= .000
AVUNIR	-0.1660 (989) P= .000	-0.1218 (991) P= .000	-0.2129 (991) P= .000	-0.0424 (990) P= .091	-0.2100 (989) P= .000	-0.1114 (988) P= .000	-0.1243 (990) P= .000	-0.1015 (671) P= .004	.4068 (844) P= .000	.1031 (843) P= .001	-0.0706 (715) P= .030
AVSSR	-0.2056 (865) P= .000	-0.1235 (865) P= .000	-0.1672 (865) P= .000	.0137 (864) P= .343	-0.1779 (864) P= .000	-0.0476 (863) P= .081	-0.0708 (864) P= .019	.0878 (557) P= .019	.5166 (735) P= .000	.1301 (735) P= .000	.1578 (587) P= .000
KRATING	.2561 (863) P= .000	.1792 (863) P= .000	.2586 (863) P= .000	.0223 (862) P= .256	.2883 (862) P= .000	.1190 (861) P= .000	.1185 (862) P= .000	.0880 (556) P= .019	-0.5535 (733) P= .000	-0.1872 (733) P= .000	.0009 (586) P= .492

PEARSON CORRELATION COEFFICIENTS (MALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MDEN	UWWPCBF	UWWLBM
SUMSA	.0003	-0.0898	-0.5219	-0.0198	-0.3241	-0.4113	-0.0259	-0.0002	-0.7742	.7753	.1885
	(753)	(753)	(753)	(753)	(753)	(753)	(1122)	(999)	(1125)	(1125)	(1125)
	P= .014	P= .007	P= .000	P= .294	P= .000	P= .000	P= .193	P= .498	P= .000	P= .000	P= .000
DWPCBF	.0222	-0.1003	-0.5940	.0244	-0.3606	-0.4518	.0591	.2505	-0.7074	.7962	.1422
	(748)	(748)	(748)	(748)	(748)	(748)	(1118)	(996)	(1121)	(1121)	(1121)
	P= .272	P= .003	P= .000	P= .253	P= .000	P= .000	P= .024	P= .000	P= .000	P= .000	P= .000
ENDO	.0804	-0.0794	-0.5104	-0.0093	-0.3169	-0.4068	-0.0012	.0096	-0.7803	.7797	.1719
	(749)	(749)	(749)	(749)	(749)	(749)	(1119)	(998)	(1122)	(1122)	(1122)
	P= .014	P= .015	P= .000	P= .400	P= .000	P= .000	P= .485	P= .381	P= .000	P= .000	P= .000
MESO	.1587	-0.0523	-0.2710	-0.0628	-0.1685	-0.2229	-0.1274	-0.2409	-0.2461	.2468	.3612
	(749)	(749)	(749)	(749)	(749)	(749)	(1119)	(998)	(1122)	(1122)	(1122)
	P= .000	P= .076	P= .000	P= .043	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ECTO	-0.1592	.0780	.4227	.0039	.2482	.3229	.0887	.1693	.5594	-0.5595	-0.2868
	(749)	(749)	(749)	(749)	(749)	(749)	(1119)	(998)	(1122)	(1122)	(1122)
	P= .000	P= .016	P= .000	P= .458	P= .000	P= .000	P= .001	P= .000	P= .000	P= .000	P= .000
AVUNIR	-0.0579	.0774	.4031	.0248	.2966	.3368	.0355	.1165	.5276	-0.5310	-0.1784
	(671)	(671)	(671)	(671)	(671)	(671)	(986)	(875)	(989)	(989)	(989)
	P= .067	P= .023	P= .000	P= .261	P= .000	P= .000	P= .133	P= .000	P= .000	P= .000	P= .000
AVSSR	.0726	.1188	.5206	.0003	.3277	.4191	.0093	-0.0182	.6836	-0.6568	-0.0244
	(557)	(557)	(557)	(557)	(557)	(557)	(861)	(778)	(863)	(863)	(863)
	P= .044	P= .002	P= .000	P= .497	P= .000	P= .000	P= .392	P= .307	P= .000	P= .000	P= .237
KRATING	.0820	-0.0911	-0.5491	.0205	-0.3489	-0.4383	.0490	.0335	-0.7852	.7856	.1748
	(556)	(556)	(556)	(556)	(556)	(556)	(859)	(768)	(861)	(861)	(861)
	P= .027	P= .016	P= .000	P= .314	P= .000	P= .000	P= .076	P= .177	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (MALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
SUMSA	.8162 (1125) P= .000	.9973 (1127) P= .000	.8793 (1125) P= .000	1.0000 (1127) P= .000	.8870 (1122) P= .000	.9779 (1123) P= .000	.3460 (1123) P= .000	-0.6088 (1123) P= .000	-0.5720 (990) P= .000	-0.6870 (864) P= .000	.7863 (852) P= .000
DWPCBF	.8035 (1121) P= .000	.8851 (1122) P= .000	.9956 (1123) P= .000	.8870 (1122) P= .000	1.0000 (1123) P= .000	.8979 (1119) P= .000	.2431 (1119) P= .000	-0.5605 (1119) P= .000	-0.4474 (988) P= .000	-0.5951 (862) P= .000	.7538 (860) P= .000
ENDO	.8030 (1122) P= .000	.9805 (1123) P= .000	.8939 (1122) P= .000	.9779 (1123) P= .000	.8979 (1119) P= .000	1.0000 (1124) P= .000	.3285 (1124) P= .000	-0.6163 (1124) P= .000	-0.5387 (987) P= .000	-0.6425 (861) P= .000	.7933 (859) P= .000
MESO	.3274 (1122) P= .000	.3460 (1123) P= .000	.2416 (1122) P= .000	.3460 (1123) P= .000	.2431 (1119) P= .000	.3285 (1124) P= .000	1.0000 (1124) P= .000	-0.7345 (1124) P= .000	-0.4653 (987) P= .000	-0.2347 (861) P= .000	.4149 (859) P= .000
ECTO	-0.6098 (1122) P= .000	-0.6094 (1123) P= .000	-0.5571 (1122) P= .000	-0.6088 (1123) P= .000	-0.5605 (1119) P= .000	-0.6163 (1124) P= .000	-0.7345 (1124) P= .000	1.0000 (1124) P= .000	.5396 (987) P= .000	.4303 (861) P= .000	-0.6957 (859) P= .000
AVUNIR	-0.5958 (989) P= .000	-0.5718 (990) P= .000	-0.4460 (990) P= .000	-0.5720 (990) P= .000	-0.4474 (988) P= .000	-0.5387 (987) P= .000	-0.4653 (987) P= .000	.5396 (987) P= .000	1.0000 (991) P= .000	.6315 (778) P= .000	-0.6361 (776) P= .000
AVSSR	-0.7082 (863) P= .000	-0.6691 (864) P= .000	-0.5872 (865) P= .000	-0.6870 (864) P= .000	-0.5951 (862) P= .000	-0.6425 (861) P= .000	-0.2347 (861) P= .000	.4303 (861) P= .000	.6315 (778) P= .000	1.0000 (865) P= .000	-0.8035 (863) P= .000
KRATING	.8146 (861) P= .000	.7892 (862) P= .000	.7514 (863) P= .000	.7863 (862) P= .000	.7538 (860) P= .000	.7933 (859) P= .000	.4149 (859) P= .000	-0.6957 (859) P= .000	-0.6361 (776) P= .000	-0.8035 (863) P= .000	1.0000 (863) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	TIMESER	RANK	CARMGMT	PRIMOS	UNITYPE	SITUP	PUSHUP	TWOMILE	PTSCORE	HY	GENDER
SUMSA	.1262	-0.0110	.0481	-0.1252	-0.0141	-0.2258	-0.2621	.3469	-0.2480	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .019	P= .429	P= .215	P= .020	P= .409	P= .000	P= .000	P= .000	P= .000	P= .	P= .
DWPCBF	.1463	.0098	.0741	-0.1298	.0020	-0.2180	-0.2661	.3114	-0.1968	.	.
	(270)	(270)	(269)	(270)	(269)	(254)	(254)	(253)	(255)	(270)	(270)
	P= .008	P= .436	P= .113	P= .016	P= .487	P= .000	P= .000	P= .000	P= .001	P= .	P= .
ENDO	.1175	-0.0231	.0516	-0.1230	.0109	-0.2023	-0.2465	.3123	-0.2254	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .027	P= .352	P= .199	P= .022	P= .429	P= .001	P= .000	P= .000	P= .000	P= .	P= .
MESO	.0392	-0.0882	.0983	-0.1320	-0.0288	-0.1793	.0219	.1983	-0.0614	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .260	P= .074	P= .054	P= .015	P= .319	P= .002	P= .364	P= .001	P= .164	P= .	P= .
ECTO	-0.0691	.0536	-0.0973	.1110	-0.0560	.1612	.0635	-0.1772	.0730	.	.
	(271)	(271)	(270)	(271)	(270)	(255)	(255)	(254)	(256)	(271)	(271)
	P= .129	P= .190	P= .055	P= .034	P= .180	P= .005	P= .156	P= .002	P= .122	P= .	P= .
AVUNIR	-0.1555	.0031	.0393	.0963	-0.0103	.2566	.1558	-0.3509	.2722	.	.
	(239)	(239)	(238)	(239)	(238)	(223)	(223)	(223)	(226)	(239)	(239)
	P= .008	P= .481	P= .273	P= .069	P= .437	P= .000	P= .010	P= .000	P= .000	P= .	P= .
AVSSR	-0.2143	.0344	-0.0664	.0312	-0.0360	.2968	.1591	-0.3229	.2055	.	.
	(218)	(218)	(217)	(218)	(218)	(205)	(205)	(205)	(207)	(218)	(218)
	P= .001	P= .307	P= .165	P= .324	P= .298	P= .000	P= .011	P= .000	P= .001	P= .	P= .
KRATING	.2355	.0037	.0968	-0.0818	.0377	-0.2459	-0.1550	.3369	-0.1907	.	.
	(216)	(216)	(215)	(216)	(216)	(203)	(203)	(203)	(205)	(216)	(216)
	P= .000	P= .478	P= .079	P= .116	P= .291	P= .000	P= .014	P= .000	P= .003	P= .	P= .

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	RACE	CHINSF	CHSTSF	SCAPSF	TRICEPSF	MIDAXSF	WAISTSF	SUPRASF	ABDSF	THISF	KNEESF
SUMSA	-0.0100	.6681	.4834	.8217	.8353	.7780	.8960	.8854	.8217	.6907	.3978
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .435	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
DWPCBF	-0.0318	.6643	.4750	.7901	.8133	.7423	.8546	.8546	.8302	.8910	.3831
	(270)	(270)	(270)	(270)	(270)	(269)	(270)	(270)	(270)	(270)	(270)
	P= .302	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ENDO	.0086	.6404	.4681	.8147	.8231	.7543	.8824	.8891	.8334	.6914	.3871
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .444	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
MESO	.1498	.3126	.2635	.4416	.5124	.4212	.4011	.3287	.3302	.3601	.3461
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .007	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
ECTO	-0.1025	-0.4148	-0.3649	-0.5932	-0.5612	-0.5192	-0.5120	-0.4485	-0.4835	-0.4708	-0.2498
	(271)	(271)	(271)	(271)	(271)	(270)	(271)	(271)	(271)	(271)	(271)
	P= .046	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
AVUNIR	-0.0386	-0.2974	-0.3367	-0.4777	-0.4581	-0.4623	-0.4237	-0.3932	-0.3662	-0.3331	-0.1534
	(239)	(239)	(239)	(239)	(239)	(238)	(239)	(239)	(239)	(239)	(239)
	P= .276	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .009
AVSSR	.0250	-0.4657	-0.4581	-0.5618	-0.5720	-0.5508	-0.5811	-0.5373	-0.5007	-0.4549	-0.2338
	(218)	(218)	(218)	(218)	(218)	(217)	(218)	(218)	(218)	(218)	(218)
	P= .357	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000
KRATING	-0.0351	.5099	.4584	.6366	.6400	.6226	.5891	.5200	.5281	.5475	.2434
	(216)	(216)	(216)	(216)	(216)	(215)	(216)	(216)	(216)	(216)	(216)
	P= .304	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	CALFSF	BICEPSF	HEADC	SHOULC	CHSTC	ABD1C	ABD2C	HIPC	THIC	BICEPC	FOREC
SUMSA	.6446 (271) P= .000	.7747 (271) P= .000	-0.0492 (270) P= .210	.4398 (270) P= .000	.5632 (270) P= .000	.5771 (270) P= .000	.6600 (270) P= .000	.6182 (270) P= .000	.4341 (271) P= .000	.6811 (271) P= .000	.3369 (271) P= .000
DWPCBF	.6060 (270) P= .000	.7460 (270) P= .000	-0.0849 (269) P= .082	.4624 (269) P= .000	.5356 (269) P= .000	.5544 (269) P= .000	.6333 (269) P= .000	.6059 (269) P= .000	.4201 (270) P= .000	.6734 (270) P= .000	.3431 (270) P= .000
ENDO	.6222 (271) P= .000	.6709 (271) P= .000	-0.0702 (270) P= .125	.4313 (270) P= .000	.5293 (270) P= .000	.5450 (270) P= .000	.6437 (270) P= .000	.6146 (270) P= .000	.4481 (271) P= .000	.6572 (271) P= .000	.3122 (271) P= .000
MESO	.3498 (271) P= .000	.3690 (271) P= .000	-0.0052 (270) P= .466	.3664 (270) P= .000	.3970 (270) P= .000	.4628 (270) P= .000	.3978 (270) P= .000	.4459 (270) P= .000	.4209 (271) P= .000	.6614 (271) P= .000	.4748 (271) P= .000
ECTO	-0.4398 (271) P= .000	-0.4431 (271) P= .000	.0066 (270) P= .457	-0.4949 (270) P= .000	-0.5202 (270) P= .000	-0.5778 (270) P= .000	-0.5727 (270) P= .000	-0.6149 (270) P= .000	-0.5794 (271) P= .000	-0.6579 (271) P= .000	-0.4908 (271) P= .000
AVUNIR	-0.3671 (239) P= .000	-0.3766 (239) P= .000	-0.0422 (238) P= .258	-0.3207 (238) P= .000	-0.4176 (238) P= .000	-0.5082 (238) P= .000	-0.5168 (238) P= .000	-0.5240 (238) P= .000	-0.4018 (239) P= .000	-0.4667 (239) P= .000	-0.2407 (239) P= .000
AVSSR	-0.4635 (218) P= .000	-0.4760 (218) P= .000	.0465 (217) P= .248	-0.3753 (217) P= .000	-0.4983 (217) P= .000	-0.5563 (217) P= .000	-0.5819 (217) P= .000	-0.6222 (217) P= .000	-0.4219 (218) P= .000	-0.5428 (218) P= .000	-0.2624 (218) P= .000
KRATING	.5818 (216) P= .000	.5286 (216) P= .000	-0.1047 (215) P= .063	.4608 (215) P= .000	.5724 (215) P= .000	.6148 (215) P= .000	.6251 (215) P= .000	.7117 (215) P= .000	.5845 (216) P= .000	.6476 (216) P= .000	.4688 (216) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	WRISTC	KNEEC	CALFC	ANKLEC	NECKC	FLXBICC	AGE	HT	WT	BIACD	BIDELD
SUMSA	.0260	.4017	.4506	.2972	.2771	.5934	.0992	-0.0683	.5824	.2460	.4598
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .335	P= .000	P= .000	P= .000	P= .000	P= .000	P= .052	P= .131	P= .000	P= .000	P= .000
DWPCBF	.0388	.3919	.4285	.2731	.2825	.5920	.1758	-0.0274	.5769	.2579	.4615
	(270)	(270)	(270)	(270)	(269)	(267)	(270)	(270)	(270)	(270)	(270)
	P= .263	P= .000	P= .000	P= .000	P= .000	P= .000	P= .002	P= .327	P= .000	P= .000	P= .000
ENDO	.0250	.3773	.4252	.2818	.2554	.5566	.0716	-0.0567	.5725	.2562	.4573
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .341	P= .000	P= .000	P= .000	P= .000	P= .000	P= .120	P= .178	P= .000	P= .000	P= .000
MESO	.1224	.3731	.6057	.3536	.1695	.5498	.0898	-0.4022	.4026	.0654	.3242
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .022	P= .000	P= .000	P= .000	P= .003	P= .000	P= .070	P= .000	P= .000	P= .142	P= .000
ECTO	-0.0371	-0.3620	-0.5084	-0.3189	-0.3240	-0.5766	-0.0818	.3802	-0.5578	-0.0709	-0.3535
	(271)	(271)	(271)	(271)	(270)	(268)	(271)	(271)	(271)	(271)	(271)
	P= .272	P= .000	P= .000	P= .000	P= .000	P= .000	P= .090	P= .000	P= .000	P= .122	P= .000
AVUNIR	-0.0582	-0.3417	-0.3598	-0.2409	-0.2205	-0.3823	-0.1467	.0676	-0.4809	-0.1317	-0.3333
	(239)	(239)	(239)	(239)	(238)	(236)	(239)	(239)	(239)	(239)	(239)
	P= .185	P= .000	P= .000	P= .000	P= .000	P= .000	P= .012	P= .148	P= .000	P= .021	P= .000
AVSSR	-0.0500	-0.3386	-0.4303	-0.3310	-0.2103	-0.4546	-0.2302	.1372	-0.5368	-0.1230	-0.3091
	(218)	(218)	(218)	(218)	(217)	(217)	(218)	(218)	(218)	(218)	(218)
	P= .231	P= .000	P= .000	P= .000	P= .001	P= .000	P= .000	P= .021	P= .000	P= .035	P= .000
KRATING	.0199	.4395	.5526	.3687	.2616	.5527	.2104	-0.2214	.6332	.0649	.3385
	(216)	(216)	(216)	(216)	(215)	(215)	(216)	(216)	(216)	(215)	(216)
	P= .386	P= .000	P= .000	P= .000	P= .000	P= .000	P= .001	P= .001	P= .000	P= .171	P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	IILIACD	BITROD	KNEED	ANKLED	CHSTD	ELBOWD	WRISTD	VO2LMIN	VO2MLKG	HR	DYLIFT
SUMSA	.4009	.4422	.3547	-0.0257	.3697	.0902	.1399	.1511	-0.4933	-0.0865	.0335
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .337	P= .000	P= .069	P= .011	P= .010	P= .000	P= .092	P= .301
DWPCBF	.3824	.4275	.3384	-0.0107	.3793	.0833	.1775	.1768	-0.4843	-0.0955	.0018
	(269)	(270)	(270)	(270)	(270)	(270)	(269)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .431	P= .000	P= .086	P= .002	P= .003	P= .000	P= .071	P= .169
ENDO	.3903	.4441	.3403	-0.0203	.3930	.0854	.1470	.1530	-0.4807	-0.0775	.0056
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .000	P= .000	P= .000	P= .370	P= .000	P= .081	P= .007	P= .006	P= .000	P= .117	P= .154
MESO	.1991	.2146	.5449	.0272	.2230	.2371	.1489	.1185	-0.3629	-0.0429	.0829
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .001	P= .000	P= .000	P= .328	P= .000	P= .000	P= .007	P= .034	P= .000	P= .255	P= .099
ECTO	-0.1477	-0.2160	-0.2826	.0048	-0.2408	.0206	-0.0818	-0.2329	.3784	.0255	-0.1133
	(270)	(271)	(271)	(271)	(271)	(271)	(270)	(237)	(238)	(238)	(243)
	P= .008	P= .000	P= .000	P= .468	P= .000	P= .368	P= .090	P= .000	P= .000	P= .348	P= .013
AVUNIR	-0.2672	-0.2916	-0.2878	-0.0424	-0.2604	-0.0834	-0.0408	-0.1288	.3998	.1271	.0085
	(238)	(239)	(239)	(239)	(239)	(239)	(238)	(212)	(212)	(212)	(216)
	P= .000	P= .000	P= .000	P= .257	P= .000	P= .099	P= .266	P= .031	P= .000	P= .032	P= .466
AVSSR	-0.3293	-0.3543	-0.3147	-0.0146	-0.2789	-0.0750	-0.0748	-0.1443	.4521	.1379	.0279
	(217)	(218)	(218)	(218)	(218)	(218)	(217)	(191)	(191)	(191)	(197)
	P= .000	P= .000	P= .000	P= .415	P= .000	P= .135	P= .136	P= .023	P= .000	P= .029	P= .348
KRATING	.3038	.3324	.3841	.0058	.2801	.0386	.0812	.2178	-0.4872	-0.1081	.0779
	(215)	(216)	(216)	(216)	(216)	(216)	(215)	(189)	(189)	(189)	(195)
	P= .000	P= .000	P= .000	P= .466	P= .000	P= .288	P= .118	P= .001	P= .000	P= .069	P= .139

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	VE	R	VCO2	VEVO2	TMSPEED	TMGRADE	VC	RLV	MOEN	UWWPCBF	UWWLBM
SUMSA	.0134 (237) P= .419	-0.0091 (237) P= .445	-0.4168 (237) P= .000	-0.1548 (237) P= .009	-0.2685 (237) P= .000	-0.4070 (237) P= .000	-0.0505 (265) P= .206	-0.1703 (260) P= .003	-0.7179 (266) P= .000	.7211 (266) P= .000	.1239 (266) P= .022
DWPCBF	-0.0066 (237) P= .460	-0.0021 (237) P= .487	-0.3871 (237) P= .000	-0.2037 (237) P= .001	-0.2488 (237) P= .000	-0.3741 (237) P= .000	-0.0032 (264) P= .480	-0.0975 (259) P= .059	-0.7030 (265) P= .000	.7034 (265) P= .000	.1626 (265) P= .004
ENDO	-0.0095 (237) P= .442	-0.0148 (237) P= .410	-0.4018 (237) P= .000	-0.1972 (237) P= .001	-0.2661 (237) P= .000	-0.3836 (237) P= .000	-0.0576 (265) P= .175	-0.1817 (260) P= .002	-0.7058 (266) P= .000	.7072 (266) P= .000	.1308 (266) P= .016
MESO	.0670 (237) P= .152	.0569 (237) P= .191	-0.2274 (237) P= .000	-0.0517 (237) P= .214	-0.2061 (237) P= .001	-0.2528 (237) P= .000	-0.0767 (265) P= .107	-0.2558 (260) P= .000	-0.4573 (266) P= .000	.4621 (266) P= .000	.1076 (266) P= .040
ECTO	-0.1076 (237) P= .049	.0002 (237) P= .499	.3188 (237) P= .000	.1245 (237) P= .028	.2551 (237) P= .000	.2537 (237) P= .000	.0159 (265) P= .398	.2951 (260) P= .000	.6349 (266) P= .000	-0.6344 (266) P= .000	-0.1879 (266) P= .001
AVUNIR	.0191 (212) P= .391	.1470 (212) P= .016	.3965 (212) P= .000	.1492 (212) P= .015	.1854 (212) P= .003	.3358 (212) P= .000	.0938 (235) P= .076	.2366 (229) P= .000	.4666 (235) P= .000	-0.4731 (235) P= .000	-0.1746 (235) P= .004
AVSSR	.0083 (191) P= .455	.0561 (191) P= .220	.4096 (191) P= .000	.1608 (191) P= .013	.2464 (191) P= .000	.3574 (191) P= .000	.0656 (212) P= .171	.1414 (208) P= .021	.6031 (213) P= .000	-0.6093 (213) P= .000	-0.1325 (213) P= .027
KRATING	-0.0136 (189) P= .426	-0.0419 (189) P= .284	-0.4324 (189) P= .000	-0.2420 (189) P= .000	-0.2967 (189) P= .000	-0.3729 (189) P= .000	.0173 (210) P= .402	-0.2177 (206) P= .001	-0.7302 (211) P= .000	.7324 (211) P= .000	.1803 (211) P= .004

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
SUMSA	.7543 (266) P= .000	.9976 (271) P= .000	.9694 (271) P= .000	1.0000 (271) P= .000	.9691 (270) P= .000	.9725 (271) P= .000	.4818 (271) P= .000	-0.6669 (271) P= .000	-0.5026 (239) P= .000	-0.6486 (218) P= .000	.6936 (216) P= .000
DWPCBF	.7239 (265) P= .000	.9852 (270) P= .000	.9947 (270) P= .000	.9691 (270) P= .000	1.0000 (270) P= .000	.9718 (270) P= .000	.4415 (270) P= .000	-0.6016 (270) P= .000	-0.4444 (238) P= .000	-0.6076 (217) P= .000	.6712 (215) P= .000
ENDO	.7324 (266) P= .000	.9747 (271) P= .000	.9755 (271) P= .000	.9725 (271) P= .000	.9718 (270) P= .000	1.0000 (271) P= .000	.4452 (271) P= .000	-0.6116 (271) P= .000	-0.4682 (239) P= .000	-0.6086 (218) P= .000	.6683 (216) P= .000
MESO	.5033 (266) P= .000	.4827 (271) P= .000	.4422 (271) P= .000	.4818 (271) P= .000	.4415 (270) P= .000	.4452 (271) P= .000	1.0000 (271) P= .000	-0.7374 (271) P= .000	-0.4198 (239) P= .000	-0.5156 (218) P= .000	.6428 (216) P= .000
ECTO	-0.6666 (266) P= .000	-0.6037 (271) P= .000	-0.6078 (271) P= .000	-0.6069 (271) P= .000	-0.6016 (270) P= .000	-0.6116 (271) P= .000	-0.7374 (271) P= .000	1.0000 (271) P= .000	.4314 (239) P= .000	.5606 (218) P= .000	-0.8135 (216) P= .000
AVUNIR	-0.5746 (235) P= .000	-0.5024 (239) P= .000	-0.4532 (239) P= .000	-0.5026 (239) P= .000	-0.4444 (238) P= .000	-0.4682 (239) P= .000	-0.4198 (239) P= .000	.4314 (239) P= .000	1.0000 (239) P= .000	.7423 (199) P= .000	-0.6268 (197) P= .000
AVSSR	-0.6822 (213) P= .000	-0.6474 (218) P= .000	-0.6164 (218) P= .000	-0.6486 (218) P= .000	-0.6076 (217) P= .000	-0.6086 (218) P= .000	-0.5156 (218) P= .000	.5606 (218) P= .000	.7423 (199) P= .000	1.0000 (218) P= .000	-0.8037 (216) P= .000
KRATING	.7827 (211) P= .000	.6962 (216) P= .000	.6784 (216) P= .000	.6936 (216) P= .000	.6712 (215) P= .000	.6683 (216) P= .000	.6428 (216) P= .000	-0.8135 (216) P= .000	-0.6268 (197) P= .000	-0.8037 (216) P= .000	1.0000 (216) P= .000

PEARSON CORRELATION COEFFICIENTS (FEMALES)

	UWWBF	SUMS	DWPCBFEX	SUMSA	DWPCBF	ENDO	MESO	ECTO	AVUNIR	AVSSR	KRATING
SUMSA	.7543 (266) P= .000	.9976 (271) P= .000	.9969 (271) P= .000	1.0000 (271) P= .000	.9691 (270) P= .000	.9725 (271) P= .000	.4810 (271) P= .000	-0.6069 (271) P= .000	-0.5026 (239) P= .000	-0.6480 (218) P= .000	.6936 (216) P= .000
DWPCBF	.7239 (265) P= .000	.9952 (270) P= .000	.9947 (270) P= .000	.9691 (270) P= .000	1.0000 (270) P= .000	.9718 (270) P= .000	.4415 (270) P= .000	-0.6016 (270) P= .000	-0.4444 (238) P= .000	-0.6076 (217) P= .000	.6712 (215) P= .000
ENDO	.7324 (266) P= .000	.9747 (271) P= .000	.9755 (271) P= .000	.9725 (271) P= .000	.9718 (270) P= .000	1.0000 (271) P= .000	.4452 (271) P= .000	-0.6110 (271) P= .000	-0.4682 (239) P= .000	-0.6080 (218) P= .000	.6683 (216) P= .000
MESO	.5033 (266) P= .000	.4827 (271) P= .000	.4422 (271) P= .000	.4810 (271) P= .000	.4415 (270) P= .000	.4452 (271) P= .000	1.0000 (271) P= .000	-0.7374 (271) P= .000	-0.4198 (239) P= .000	-0.5150 (218) P= .000	.6428 (216) P= .000
ECTO	-0.6666 (266) P= .000	-0.6037 (271) P= .000	-0.6078 (271) P= .000	-0.6069 (271) P= .000	-0.6016 (270) P= .000	-0.6110 (271) P= .000	-0.7374 (271) P= .000	1.0000 (271) P= .000	.4314 (239) P= .000	.5606 (218) P= .000	-0.8135 (216) P= .000
AVUNIR	-0.5746 (235) P= .000	-0.5024 (239) P= .000	-0.4532 (239) P= .000	-0.5026 (239) P= .000	-0.4444 (238) P= .000	-0.4682 (239) P= .000	-0.4198 (239) P= .000	.4314 (239) P= .000	1.0000 (239) P= .000	.7423 (199) P= .000	-0.8268 (197) P= .000
AVSSR	-0.6822 (213) P= .000	-0.6474 (218) P= .000	-0.6164 (218) P= .000	-0.6480 (218) P= .000	-0.6076 (217) P= .000	-0.6080 (218) P= .000	-0.5150 (218) P= .000	.5606 (218) P= .000	.7423 (199) P= .000	1.0000 (218) P= .000	-0.8037 (216) P= .000
KRATING	.7827 (211) P= .000	.6902 (216) P= .000	.6784 (216) P= .000	.6936 (216) P= .000	.6712 (215) P= .000	.6683 (216) P= .000	.6428 (216) P= .000	-0.8135 (216) P= .000	-0.8268 (197) P= .000	-0.8037 (216) P= .000	1.0000 (216) P= .000

Appendix I

ANCOVA Tables

*** ANALYSIS OF VARIANCE ***

AVERAGE UNIFORM RATING
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	20.030	1	20.030	13.53780	0.000
AGE	20.030	1	20.030	13.53780	0.000
MAIN EFFECTS	12.966	3	4.322	2.921097	0.033
GENDER	8.188	1	8.188	5.533851	0.019
RACE	5.633	2	2.817	1.903774	0.149
2-WAY INTERACTIONS	3.508	2	1.754	1.185604	0.306
GENDER RACE	3.508	2	1.754	1.185604	0.306
EXPLAINED	36.504	6	6.084	4.112051	0.000
RESIDUAL	1984.090	1341	1.480		
TOTAL	2020.594	1347	1.500		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

AVERAGE SWIM SUIT RATING
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	6.403	1	6.403	3.073443	0.080
AGE	6.403	1	6.403	3.073443	0.080
MAIN EFFECTS	21.919	3	7.306	3.507282	0.015
GENDER	2.031	1	2.031	0.9747400	0.324
RACE	18.838	2	9.419	4.521441	0.011
2-WAY INTERACTIONS	0.028	2	0.014	0.6836337E-02	0.993
GENDER RACE	0.028	2	0.014	0.6836337E-02	0.993
EXPLAINED	28.351	6	4.725	2.268160	0.035
RESIDUAL	2793.603	1341	2.083		
TOTAL	2821.954	1347	2.095		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

VISUAL APPRAISAL RATING
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	101.640	1	101.640	36.02525	0.000
AGE	101 640	1	101.640	36.02525	0.000
MAIN EFFECTS	42.197	3	14.066	4.985472	0.002
GENDER	25.499	1	25.499	9.037971	0.003
RACE	18.757	2	9.379	3.324156	0.036
2-WAY INTERACTIONS	0.955	2	0.477	0.1692055	0.844
GENDER RACE	0.955	2	0.477	0.1692055	0.844
EXPLAINED	144.792	6	24.132	8.553346	0.000
RESIDUAL	3783.429	1341	2.821		
TOTAL	3928.220	1347	2.916		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

ENDOMORPHY
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	188.894	1	188.894	84.51210	0.000
AGE	188.894	1	188.894	84.51210	0.000
MAIN EFFECTS	91.786	3	30.595	13.68849	0.000
GENDER	8.604	1	8.604	3.849434	0.050
RACE	86.989	2	43.494	19.45955	0.000
2-WAY INTERACTIONS	1.719	2	0.859	0.3844494	0.681
GENDER RACE	1.719	2	0.859	0.3844494	0.681
EXPLAINED	282.399	6	47.066	21.05774	0.000
RESIDUAL	2997.290	1341	2.235		
TOTAL	3279.689	1347	2.435		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

MESOMORPHY
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	15.301	1	15.301	11.60824	0.001
AGE	15.301	1	15.301	11.60824	0.001
MAIN EFFECTS	181.863	3	60.621	45.99208	0.000
GENDER	149.705	1	149.705	113.5784	0.000
RACE	30.735	2	15.367	11.65901	0.000
2-WAY INTERACTIONS	7.837	2	3.919	2.973077	0.051
GENDER RACE	7.837	2	3.919	2.973077	0.051
EXPLAINED	205.001	6	34.167	25.92177	0.000
RESIDUAL	1767.541	1341	1.318		
TOTAL	1972.542	1347	1.464		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

ECTOMORPHY
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	49.720	1	49.720	46.54889	0.000
AGE	49.720	1	49.720	46.54889	0.000
MAIN EFFECTS	19.220	3	6.407	5.997956	0.000
GENDER	0.021	1	0.021	0.1965533E-01	0.889
RACE	19.053	2	9.526	8.918890	0.000
2-WAY INTERACTIONS	0.551	2	0.276	0.2579341	0.773
GENDER RACE	0.551	2	0.276	0.2579341	0.773
EXPLAINED	69.491	6	11.582	10.84310	0.000
RESIDUAL	1432.351	1341	1.068		
TOTAL	1501.842	1347	1.115		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

VITAL CAPACITY
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	76.634	1	76.634	170.0613	0.000
AGE	76.634	1	76.634	170.0613	0.000
MAIN EFFECTS	410.082	3	136.694	303.3431	0.000
GENDER	263.910	1	263.910	585.6533	0.000
RACE	131.923	2	65.962	146.3780	0.000
2-WAY INTERACTIONS	3.997	2	1.999	4.435099	0.012
GENDER RACE	3.997	2	1.999	4.435099	0.012
EXPLAINED	490.713	6	81.785	181.4935	0.000
RESIDUAL	598.880	1329	0.451		
TOTAL	1089.593	1335	0.816		

1399 CASES WERE PROCESSED.
63 CASES (4.5 PCT) WERE MISSING.

RESIDUAL LUNG VOLUME (L)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	49.771	1	49.771	792.8098	0.000
AGE	49.771	1	49.771	792.8098	0.000
MAIN EFFECTS	11.381	3	3.794	60.43272	0.000
GENDER	6.038	1	6.038	96.18529	0.000
RACE	5.343	2	2.672	42.55516	0.000
2-WAY INTERACTIONS	0.363	2	0.181	2.88943	0.056
GENDER RACE	0.363	2	0.181	2.88943	0.056
EXPLAINED	61.515	6	10.253	163.3145	0.000
RESIDUAL	75.71	1206	0.063		
TOTAL	137.225	1212	0.113		

1399 CASES WERE PROCESSED.
186 CASES (13.3 PCT) WERE MISSING.

BODY DENSITY (G/CC)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	0.019	1	0.019	106.3715	0.000
AGE	0.019	1	0.019	106.3715	0.000
MAIN EFFECTS	0.096	3	0.032	179.6194	0.000
GENDER	0.083	1	0.083	465.6845	0.000
RACE	0.017	2	0.009	48.32807	0.000
2-WAY INTERACTIONS	0.003	2	0.001	7.129844	0.001
GENDER RACE	0.003	2	0.001	7.129844	0.001
EXPLAINED	0.118	6	0.02	109.9149	0.000
RESIDUAL	0.216	1206	0.000		
TOTAL	0.334	1212	0.000		

1399 CASES WERE PROCESSED.
186 CASES (13.3 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

PERCENT BODY FAT FROM UNDERWATER WEIGHING
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	3753.889	1	3753.889	103.1942	0.000
AGE	3753.889	1	3753.889	103.1942	0.000
MAIN EFFECTS	19523.888	3	6507.963	178.9036	0.000
GENDER	16953.959	1	16953.959	466.0636	0.000
RACE	3410.45	2	1705.225	46.87657	0.000
2-WAY INTERACTIONS	480.774	2	240.387	6.60823	0.001
GENDER RACE	480.774	2	240.387	6.60823	0.001
EXPLAINED	23758.551	6	3959.759	108.8536	0.000
RESIDUAL	43870.566	1206	36.377		
TOTAL	67629.117	1212	55.800		

1399 CASES WERE PROCESSED.
186 CASES (13.3 PCT) WERE MISSING.

FAT FREE MASS (KG) FROM UNDERWATER WEIGHING
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	7208.776	1	7208.776	157.7244	0.000
AGE	7208.776	1	7208.776	157.7244	0.000
MAIN EFFECTS	56828.312	3	18942.771	414.4583	0.000
GENDER	56078.602	1	56078.602	1226.972	0.000
RACE	2118.13	2	1059.065	23.17181	0.000
2-WAY INTERACTIONS	178.063	2	89.032	1.947965	0.143
GENDER RACE	178.063	2	89.032	1.947965	0.143
EXPLAINED	64215.152	6	10702.525	234.1659	0.000
RESIDUAL	55120.093	1206	45.705		
TOTAL	119335.244	1212	98.461		

1399 CASES WERE PROCESSED.
186 CASES (13.3 PCT) WERE MISSING.

FAT MASS (KG) FROM UNDERWATER WEIGHING
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	7782.262	1	7782.262	202.876	0.000
AGE	7782.262	1	7782.262	202.876	0.000
MAIN EFFECTS	3472.949	3	1157.65	30.1788	0.000
GENDER	1674.651	1	1674.651	43.65652	0.000
RACE	1991.191	2	995.595	25.95421	0.000
2-WAY INTERACTIONS	374.081	2	187.04	4.875962	0.008
GENDER RACE	374.081	2	187.04	4.875962	0.008
EXPLAINED	11629.291	6	1938.215	50.52739	0.000
RESIDUAL	46261.793	1206	38.360		
TOTAL	57891.084	1212	47.765		

1399 CASES WERE PROCESSED.
186 CASES (13.3 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

VO2 (ML•KG•MIN)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	4462.05	1	4462.05	176.3439	0.000
AGE	4462.05	1	4462.05	176.3439	0.000
MAIN EFFECTS	16645.939	3	5548.646	219.2871	0.000
GENDER	16141.541	1	16141.541	637.9271	0.000
RACE	107.238	2	53.619	2.119061	0.121
2-WAY INTERACTIONS	264.603	2	132.301	5.228663	0.006
GENDER RACE	264.603	2	132.301	5.228663	0.006
EXPLAINED	21372.592	6	3562.099	140.7771	0.000
RESIDUAL	23481.287	928	25.303		
TOTAL	44853.879	934	48.023		

1399 CASES WERE PROCESSED.
464 CASES (33.2 PCT) WERE MISSING.

TREADMILL GRADE
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	347.576	1	347.576	80.48598	0.000
AGE	347.576	1	347.576	80.48598	0.000
MAIN EFFECTS	321.983	3	107.328	24.85316	0.000
GENDER	267.050	1	267.050	61.83891	0.000
RACE	33.872	2	16.936	3.921781	0.020
2-WAY INTERACTIONS	0.780	2	0.390	0.9031036E-01	0.914
GENDER RACE	0.780	2	0.390	0.9031036E-01	0.914
EXPLAINED	670.339	6	111.723	25.87101	0.000
RESIDUAL	4072.319	943	4.318		
TOTAL	4742.658	949	4.998		

1399 CASES WERE PROCESSED.
449 CASES (32.1 PCT) WERE MISSING.

TREADMILL SPEED
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	0.493	1	0.493	2.342821	0.126
AGE	0.493	1	0.493	2.342821	0.126
MAIN EFFECTS	216.637	3	72.212	343.1269	0.000
GENDER	213.403	1	213.403	1014.013	0.000
RACE	0.217	2	0.109	0.5166015	0.597
2-WAY INTERACTIONS	0.792	2	0.396	1.880559	0.153
GENDER RACE	0.792	2	0.396	1.880559	0.153
EXPLAINED	217.922	6	36.320	172.5808	0.000
RESIDUAL	198.458	943	0.210		
TOTAL	416.380	949	0.439		

1399 CASES WERE PROCESSED.
449 CASES (32.1 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

VE/VO2
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	110885.609	1	110885.609	460.7629	0.000
AGE	110885.609	1	110885.609	460.7629	0.000
MAIN EFFECTS	5603.665	3	1867.888	7.761635	0.000
GENDER	837.835	1	837.835	3.481455	0.062
RACE	4766.689	2	2383.345	9.903511	0.000
2-WAY INTERACTIONS	64.569	2	32.284	0.1341508	0.874
GENDER RACE	64.569	2	32.284	0.1341508	0.874
EXPLAINED	116553.842	6	19425.640	80.71935	0.000
RESIDUAL	322720.437	1341	240.657		
TOTAL	439274.279	1347	326.113		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

R
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	97.970	1	97.970	512.0725	0.000
AGE	97.970	1	97.970	512.0725	0.000
MAIN EFFECTS	3.584	3	1.195	6.243778	0.000
GENDER	0.062	1	0.062	0.3230696	0.570
RACE	3.503	2	1.752	9.155524	0.000
2-WAY INTERACTIONS	0.262	2	0.131	0.6841358	0.505
GENDER RACE	0.262	2	0.131	0.6841358	0.505
EXPLAINED	101.816	6	16.969	88.69534	0.000
RESIDUAL	256.562	1341	0.191		
TOTAL	358.378	1347	0.266		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

CO2 PRODUCTION (L/MIN)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	256683.689	1	256683.689	616.1901	0.000
AGE	256683.689	1	256683.689	616.1901	0.000
MAIN EFFECTS	26200.500	3	8733.500	20.96548	0.000
GENDER	19519.141	1	19519.141	46.85729	0.000
RACE	5796.937	2	2898.469	6.958010	0.001
2-WAY INTERACTIONS	1245.931	2	622.966	1.495480	0.225
GENDER RACE	1245.931	2	622.966	1.495480	0.225
EXPLAINED	284130.120	6	47355.020	113.6796	0.000
RESIDUAL	558614.650	1341	416.566		
TOTAL	842744.770	1347	625.646		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

VO2 UPTAKE (L/MIN)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	0.022	1	0.022	0.1091822	0.741
AGE	0.022	1	0.022	0.1091822	0.741
MAIN EFFECTS	284.577	3	94.859	478.0563	0.000
GENDER	280.335	1	280.335	1412.79	0.000
RACE	0.667	2	0.333	1.68004	0.187
2-WAY INTERACTIONS	0.433	2	0.217	1.09232	0.336
GENDER RACE	0.433	2	0.217	1.09232	0.336
EXPLAINED	285.032	6	47.505	239.4104	0.000
RESIDUAL	184.14	928	0.198		
TOTAL	469.172	934	0.502		

1399 CASES WERE PROCESSED.
464 CASES (33.2 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

HEART RATE (BPM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	6880.162	1	6880.162	109.7401	0.000
AGE	6880.162	1	6880.162	109.7401	0.000
MAIN EFFECTS	2305.086	3	768.362	12.25554	0.000
GENDER	1035.547	1	1035.547	16.51719	0.000
RACE	1092.357	2	546.179	8.711666	0.000
2-WAY INTERACTIONS	108.556	2	54.278	0.8657447	0.421
GENDER RACE	108.556	2	54.278	0.8657447	0.421
EXPLAINED	9293.803	6	1548.967	24.70636	0.000
RESIDUAL	58181.031	928	62.695		
TOTAL	67474.834	934	72.243		

1399 CASES WERE PROCESSED.
464 CASES (33.2 PCT) WERE MISSING.

VENTILATION (L/MIN)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	1227749.357	1	1227749.357	429.0622	0.000
AGE	1227749.357	1	1227749.357	429.0622	0.000
MAIN EFFECTS	298807.265	3	99602.422	34.80811	0.000
GENDER	257447.292	1	257447.292	89.97024	0.000
RACE	37236.638	2	18618.319	6.506554	0.002
2-WAY INTERACTIONS	4805.537	2	2402.769	0.8396968	0.432
GENDER RACE	4805.537	2	2402.769	0.8396968	0.432
EXPLAINED	1531362.159	6	255227.027	89.19433	0.000
RESIDUAL	3837233.305	1341	2861.472		
TOTAL	5368595.464	1347	3985.594		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

HEIGHT (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	8045.299	1	8045.299	192.6407	0.000
AGE	8045.299	1	8045.299	192.6407	0.000
MAIN EFFECTS	29756.522	3	9918.841	237.5017	0.000
GENDER	27768.153	1	27768.153	664.8947	0.000
RACE	2823.184	2	1411.592	33.79987	0.000
2-WAY INTERACTIONS	98.447	2	49.224	1.178635	0.308
GENDER RACE	98.447	2	49.224	1.178635	0.308
EXPLAINED	37900.269	6	6316.711	151.2505	0.000
RESIDUAL	55837.448	1337	41.763		
TOTAL	93737.717	1343	69.797		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

WEIGHT (KG)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	30950.845	1	30950.845	296.5846	0.000
AGE	30950.845	1	30950.845	296.5846	0.000
MAIN EFFECTS	42196.810	3	14065.603	134.7828	0.000
GENDER	41813.117	1	41813.117	400.6717	0.000
RACE	744.937	2	372.469	3.569157	0.028
2-WAY INTERACTIONS	23.735	2	11.868	0.1137200	0.893
GENDER RACE	23.735	2	11.868	0.1137200	0.893
EXPLAINED	73171.390	6	12195.232	116.8601	0.000
RESIDUAL	139526.039	1337	104.358		
TOTAL	212697.429	1343	158.375		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

CHIN SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	1915.138	1	1915.138	309.8926	0.000
AGE	1915.138	1	1915.138	309.8926	0.000
MAIN EFFECTS	1758.453	3	586.151	94.84637	0.000
GENDER	508.032	1	508.032	82.20574	0.000
RACE	1354.364	2	677.182	109.5763	0.000
2-WAY INTERACTIONS	22.380	2	11.190	1.810653	0.164
GENDER RACE	22.380	2	11.190	1.810653	0.164
EXPLAINED	3695.971	6	615.995	99.67550	0.000
RESIDUAL	8275.028	1339	6.180		
TOTAL	11970.999	1345	8.900		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

CHEST SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	14582.115	1	14582.115	322.6982	0.000
AGE	14582.115	1	14582.115	322.6982	0.000
MAIN EFFECTS	3299.459	3	1099.820	24.33871	0.000
GENDER	205.611	1	205.611	4.550103	0.033
RACE	3205.607	2	1602.803	35.46959	0.000
2-WAY INTERACTIONS	228.299	2	114.149	2.526092	0.080
GENDER RACE	228.299	2	114.149	2.526092	0.080
EXPLAINED	18109.873	6	3018.312	66.79441	0.000
RESIDUAL	60506.859	1339	45.188		
TOTAL	78616.731	1345	58.451		

1399 CASES WERE PROCESSED
53 CASES (3.8 PCT) WERE MISSING.

BICEPS SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	78.282	1	78.282	12.11194	0.001
AGE	78.282	1	78.282	12.11194	0.001
MAIN EFFECTS	1171.345	3	390.448	60.41081	0.000
GENDER	1008.737	1	1008.737	156.0735	0.000
RACE	201.595	2	100.797	15.59553	0.000
2-WAY INTERACTIONS	77.068	2	38.534	5.962021	0.003
GENDER RACE	77.068	2	38.534	5.962021	0.003
EXPLAINED	1326.694	6	221.116	34.2114	0.000
RESIDUAL	8602.543	1331	6.463		
TOTAL	9929.237	1337	7.427		

1399 CASES WERE PROCESSED.
61 CASES (4.4 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

TRICEPS SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	42.636	1	42.636	2.006474	0.157
AGE	42.636	1	42.636	2.006474	0.157
MAIN EFFECTS	7492.856	3	2497.619	117.5406	0.000
GENDER	7186.105	1	7186.105	338.1858	0.000
RACE	395.187	2	197.594	9.298970	0.000
2-WAY INTERACTIONS	21.883	2	10.941	0.5149168	0.598
GENDER RACE	21.883	2	10.941	0.5149168	0.598
EXPLAINED	7557.374	6	1259.562	59.27636	0.000
RESIDUAL	28452.389	1339	21.249		
TOTAL	36009.763	1345	26.773		

1399 CASES WERE PROCESSED.

SUBSCAPULAR SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	4278.527	1	4278.527	129.2535	0.000
AGE	4278.527	1	4278.527	129.2535	0.000
MAIN EFFECTS	999.141	3	333.047	10.06129	0.000
GENDER	171.396	1	171.396	5.177833	0.023
RACE	755.485	2	377.743	11.41154	0.000
2-WAY INTERACTIONS	2.659	2	1.329	0.4015820E-01	0.961
GENDER RACE	2.659	2	1.329	0.4015820E-01	0.961
EXPLAINED	5280.327	6	880.054	26.58629	0.000
RESIDUAL	44323.341	1339	33.102		
TOTAL	49603.668	1345	36.880		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

MIDAXILLARY SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	6293.849	1	6293.849	141.6995	0.000
AGE	6293.849	1	6293.849	141.6995	0.000
MAIN EFFECTS	2905.481	3	968.494	21.80464	0.000
GENDER	48.368	1	48.368	1.088956	0.297
RACE	2900.741	2	1450.371	32.6536	0.000
2-WAY INTERACTIONS	106.055	2	53.027	1.193857	0.303
GENDER RACE	106.055	2	53.027	1.193857	0.303
EXPLAINED	9305.385	6	1550.897	34.91686	0.000
RESIDUAL	59474.179	1339	44.417		
TOTAL	68779.564	1345	51.137		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

WAIST SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	7390.719	1	7390.719	106.9938	0.000
AGE	7390.719	1	7390.719	106.9938	0.000
MAIN EFFECTS	5920.432	3	1973.477	28.5696	0.000
GENDER	1410.525	1	1410.525	20.41987	0.000
RACE	4066.44	2	2033.22	29.43448	0.000
2-WAY INTERACTIONS	84.075	2	42.037	0.6085648	0.544
GENDER RACE	84.075	2	42.037	0.6085648	0.544
EXPLAINED	13395.226	6	2232.538	32.31996	0.000
RESIDUAL	92492.936	1339	69.076		
TOTAL	105888.162	1345	78.727		

1399 CASES WERE PROCESSED.

ABDOMINAL SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	22225.74	1	22225.74	262.4415	0.000
AGE	22225.74	1	22225.74	262.4415	0.000
MAIN EFFECTS	5389.672	3	1796.557	21.21375	0.000
GENDER	99.39	1	99.39	1.173596	0.279
RACE	5152.982	2	2576.491	30.4232	0.000
2-WAY INTERACTIONS	168.828	2	84.414	0.9967576	0.369
GENDER RACE	168.828	2	84.414	0.9967576*	0.369
EXPLAINED	27784.24	6	4630.707	54.67937	0.000
RESIDUAL	113397.719	1339	84.688		
TOTAL	141181.958	1345	104.968		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

SUPRAILIAC SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	9235.585	1	9235.585	107.6792	0.000
AGE	9235.585	1	9235.585	107.6792	0.000
MAIN EFFECTS	8420.811	3	2806.937	32.72652	0.000
GENDER	2250.781	1	2250.781	26.24221	0.000
RACE	5541.129	2	2770.565	32.30245	0.000
2-WAY INTERACTIONS	234.445	2	117.222	1.366714	0.255
GENDER RACE	234.445	2	117.222	1.366714	0.255
EXPLAINED	17890.841	6	2981.807	34.76536	0.000
RESIDUAL	114845.336	1339	85.769		
TOTAL	132736.177	1345	98.689		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

KNEE SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	16.019	1	16.019	3.655942	0.056
AGE	16.019	1	16.019	3.655942	0.056
MAIN EFFECTS	33.051	3	11.017	2.514304	0.057
GENDER	13.456	1	13.456	3.071035	0.080
RACE	22.394	2	11.197	2.555432	0.078
2-WAY INTERACTIONS	4.412	2	2.206	0.5034561	0.605
GENDER RACE	4.412	2	2.206	0.5034561	0.605
EXPLAINED	53.482	6	8.914	2.034295	0.058
RESIDUAL	5867.06	1339	4.382		
TOTAL	5920.541	1345	4.402		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

CALF SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	962.574	1	962.574	46.29056	0.000
AGE	962.574	1	962.574	46.29056	0.000
MAIN EFFECTS	9585.783	3	3195.261	153.6614	0.000
GENDER	8623.806	1	8623.806	414.7223	0.000
RACE	1231.535	2	615.768	29.61252	0.000
2-WAY INTERACTIONS	5.264	2	2.632	0.1265827	0.881
GENDER RACE	5.264	2	2.632	0.1265827	0.881
EXPLAINED	10553.621	6	1758.937	84.58798	0.000
RESIDUAL	27677.039	1331	20.794		
TOTAL	38230.66	1337	28.594		

1399 CASES WERE PROCESSED.
61 CASES (4.4 PCT) WERE MISSING.

THIGH SKINFOLD (MM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	341.732	1	341.732	7.962589	0.005
AGE	341.732	1	341.732	7.962589	0.005
MAIN EFFECTS	33923.573	3	11307.858	263.481	0.000
GENDER	32197.057	1	32197.057	750.214	0.000
RACE	2375.22	2	1187.61	27.67215	0.000
2-WAY INTERACTIONS	36.236	2	18.118	0.4221577	0.656
GENDER RACE	36.236	2	18.118	0.4221577	0.656
EXPLAINED	34301.541	6	5716.923	133.2083	0.000
RESIDUAL	57466.082	1339	42.917		
TOTAL	91767.622	1345	68.229		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

HEAD CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	452.938	1	452.938	151.6222	0.000
AGE	452.938	1	452.938	151.6222	0.000
MAIN EFFECTS	836.404	3	278.801	93.32954	0.000
GENDER	799.111	1	799.111	267.5047	0.000
RACE	72.738	2	36.369	12.1746	0.000
2-WAY INTERACTIONS	46.136	2	23.068	7.722135	0.000
GENDER RACE	46.136	2	23.068	7.722135	0.000
EXPLAINED	1335.478	6	222.58	74.50917	0.000
RESIDUAL	3976.067	1331	2.987		
TOTAL	5311.544	1337	3.973		

1399 CASES WERE PROCESSED.
61 CASES (4.4 PCT) WERE MISSING.

NECK CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	1321.256	1	1321.256	303.6618	0.000
AGE	1321.256	1	1321.256	303.6618	0.000
MAIN EFFECTS	5862.768	3	1954.256	449.143	0.000
GENDER	5817.058	1	5817.058	1336.923	0.000
RACE	8.728	2	4.364	1.002965	0.367
2-WAY INTERACTIONS	0.304	2	0.152	0.3493636E-01	0.966
GENDER RACE	0.304	2	0.152	0.3493636E-01	0.966
EXPLAINED	7184.328	6	1197.388	275.1934	0.000
RESIDUAL	5795.636	1332	4.351		
TOTAL	12979.964	1338	9.701		

1399 CASES WERE PROCESSED.
60 CASES (4.3 PCT) WERE MISSING.

BICEP CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	586.856	1	586.856	110.0907	0.000
AGE	586.856	1	586.856	110.0907	0.000
MAIN EFFECTS	2789.711	3	929.904	174.4443	0.000
GENDER	2713.745	1	2713.745	509.0823	0.000
RACE	118.242	2	59.121	11.09078	0.000
2-WAY INTERACTIONS	37.52	2	18.76	3.519256	0.030
GENDER RACE	37.52	2	18.76	3.519256	0.030
EXPLAINED	3414.087	6	569.014	106.7437	0.000
RESIDUAL	7111.102	1334	5.331		
TOTAL	10525.188	134	7.855		

1399 CASES WERE PROCESSED.
58 CASES (4.1 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

FLEXED BICEP CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	991.206	1	991.206	145.5189	0.000
AGE	991.206	1	991.206	145.5189	0.000
MAIN EFFECTS	6419.04	3	2139.68	314.1263	0.000
GENDER	6204.253	1	6204.253	910.846	0.000
RACE	280.30	2	140.15	20.57544	0.000
2-WAY INTERACTIONS	71.272	2	35.636	5.231705	0.005
GENDER RACE	71.272	2	35.636	5.231705	0.005
EXPLAINED	7481.518	6	1246.92	183.0602	0.000
RESIDUAL	9072.955	1332	6.812		
TOTAL	16554.473	1338	12.373		

1399 CASES WERE PROCESSED.
60 CASES (4.3 PCT) WERE MISSING.

SHOULDER CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	7050.56	1	7050.56	190.957	0.000
AGE	7050.56	1	7050.56	190.957	0.000
MAIN EFFECTS	33042.045	3	11014.015	298.303	0.000
GENDER	32893.65	1	32893.65	890.8898	0.000
RACE	37.076	2	18.538	0.5020881	0.605
2-WAY INTERACTIONS	32.976	2	16.488	0.4465579	0.640
GENDER RACE	32.976	2	16.488	0.4465579	0.640
EXPLAINED	40125.58	6	6687.597	181.1265	0.000
RESIDUAL	49143.507	1331	36.922		
TOTAL	89269.087	1337	66.768		

1399 CASES WERE PROCESSED.
61 CASES (4.4 PCT) WERE MISSING.

CHEST CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	19644.934	1	19644.934	457.5426	0.000
AGE	19644.934	1	19644.934	457.5426	0.000
MAIN EFFECTS	35236.878	3	11745.626	273.5628	0.000
GENDER	32532.986	1	32532.986	757.7132	0.000
RACE	1606.24	2	803.12	18.70516	0.000
2-WAY INTERACTIONS	32.705	2	16.353	0.3808628	0.683
GENDER RACE	32.705	2	16.353	0.3808628	0.683
EXPLAINED	54914.517	6	9152.42	213.1655	0.000
RESIDUAL	57147.488	1331	42.936		
TOTAL	112062.005	1337	83.816		

1399 CASES WERE PROCESSED.
61 CASES (4.4 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

ABDOMEN 1 CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	27347.401	1	27347.401	486.5545	0.000
AGE	27347.401	1	27347.401	486.5545	0.000
MAIN EFFECTS	21975.872	3	7325.291	130.3288	0.000
GENDER	19644.407	1	19644.407	349.5057	0.000
RACE	1361.384	2	680.692	12.11061	0.000
2-WAY INTERACTIONS	141.477	2	70.738	1.258551	0.284
GENDER RACE	141.477	2	70.738	1.258551	0.284
EXPLAINED	49464.75	6	8244.125	146.6763	0.000
RESIDUAL	74979.134	1334	56.206		
TOTAL	124443.885	134	92.869		

1399 CASES WERE PROCESSED.
58 CASES (4.1 PCT) WERE MISSING.

ABDOMEN 2 CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	30853.416	1	30853.416	450.2093	0.000
AGE	30853.416	1	30853.416	450.2093	0.000
MAIN EFFECTS	18789.308	3	6263.103	91.39043	0.000
GENDER	14341.758	1	14341.758	209.2732	0.000
RACE	3387.936	2	1693.968	24.71818	0.000
2-WAY INTERACTIONS	204.88	2	102.44	1.49479	0.225
GENDER RACE	204.88	2	102.44	1.49479	0.225
EXPLAINED	49847.603	6	8307.934	121.2284	0.000
RESIDUAL	91420.715	1334	68.531		
TOTAL	141268.319	134	105.424		

1399 CASES WERE PROCESSED.
58 CASES (4.1 PCT) WERE MISSING.

HIP CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	2774.153	1	2774.153	66.3017	0.000
AGE	2774.153	1	2774.153	66.3017	0.000
MAIN EFFECTS	502.976	3	167.659	4.007007	0.007
GENDER	271.839	1	271.839	6.496906	0.011
RACE	209.567	2	104.784	2.504309	0.082
2-WAY INTERACTIONS	3.874	2	1.937	0.4629388E-01	0.955
GENDER RACE	3.874	2	1.937	0.4629388E-01	0.955
EXPLAINED	3281.003	6	546.834	13.06922	0.000
RESIDUAL	55816.374	1334	41.841		
TOTAL	59097.377	134	44.103		

1399 CASES WERE PROCESSED.
58 CASES (4.1 PCT) WERE MISSING.

ANALYSIS OF VARIANCE

FOREARM CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	396.036	1	396.036	117.3253	0.000
AGE	396.036	1	396.036	117.3253	0.000
MAIN EFFECTS	3898.898	3	1299.633	385.0149	0.000
GENDER	3876.347	1	3876.347	1148.364	0.000
RACE	89.73	2	44.865	13.29127	0.000
2-WAY INTERACTIONS	8.005	2	4.002	1.185664	0.306
GENDER RACE	8.005	2	4.002	1.185664	0.306
EXPLAINED	4302.939	6	717.157	212.4569	0.000
RESIDUAL	4513.095	1337	3.376		
TOTAL	8816.035	1343	6.564		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

WRIST CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	118.155	1	118.155	107.2699	0.000
AGE	118.155	1	118.155	107.2699	0.000
MAIN EFFECTS	804.397	3	268.132	243.4305	0.000
GENDER	795.528	1	795.528	722.2402	0.000
RACE	15.214	2	7.607	6.906322	0.001
2-WAY INTERACTIONS	3.299	2	1.649	1.497446	0.224
GENDER RACE	3.299	2	1.649	1.497446	0.224
EXPLAINED	925.85	6	154.308	140.0927	0.000
RESIDUAL	1472.67	1337	1.101		
TOTAL	2398.52	1343	1.786		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

THIGH CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	322.625	1	322.625	13.03339	0.000
AGE	322.625	1	322.625	13.03339	0.000
MAIN EFFECTS	573.53	3	191.177	7.723154	0.000
GENDER	0.22	1	0.22	0.8892132E-02	0.925
RACE	570.021	2	285.011	11.51385	0.000
2-WAY INTERACTIONS	73.513	2	36.757	1.484895	0.227
GENDER RACE	73.513	2	36.757	1.484895	0.227
EXPLAINED	969.669	6	161.611	6.528773	0.000
RESIDUAL	33021.465	1334	24.754		
TOTAL	33991.133	134	25.367		

1399 CASES WERE PROCESSED.
58 CASES (4.1 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

KNEE CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	357.227	1	357.227	48.24817	0.000
AGE	357.227	1	357.227	48.24817	0.000
MAIN EFFECTS	697.561	3	232.52	31.40492	0.000
GENDER	662.562	1	662.562	89.48775	0.000
RACE	38.256	2	19.128	2.583487	0.076
2-WAY INTERACTIONS	15.574	2	7.787	1.051752	0.350
GENDER RACE	15.574	2	7.787	1.051752	0.350
EXPLAINED	1070.361	6	178.394	24.0944	0.000
RESIDUAL	9899.071	1337	7.404		
TOTAL	10969.432	1343	8.168		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

CALF CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	367.836	1	367.836	49.35055	0.000
AGE	367.836	1	367.836	49.35055	0.000
MAIN EFFECTS	1016.748	3	338.916	45.47052	0.000
GENDER	936.384	1	936.384	125.6297	0.000
RACE	99.865	2	49.932	6.699153	0.001
2-WAY INTERACTIONS	4.967	2	2.484	0.3332145	0.717
GENDER RACE	4.967	2	2.484	0.3332145	0.717
EXPLAINED	1389.551	6	231.592	31.07142	0.000
RESIDUAL	9965.369	1337	7.454		
TOTAL	11354.92	1343	8.455		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

ANKLE CIRCUMFERENCE (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	32.174	1	32.174	13.50552	0.000
AGE	32.174	1	32.174	13.50552	0.000
MAIN EFFECTS	822.773	3	274.258	115.1254	0.000
GENDER	744.291	1	744.291	312.4317	0.000
RACE	68.347	2	34.174	14.34507	0.000
2-WAY INTERACTIONS	1.969	2	0.985	0.4133156	0.662
GENDER RACE	1.969	2	0.985	0.4133156	0.662
EXPLAINED	856.916	6	142.819	59.95139	0.000
RESIDUAL	3185.071	1337	2.382		
TOTAL	4041.986	1343	3.010		

1399 CASES WERE PROCESSED.
55 CASES (3.9 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

BIACROMIAL DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	1157.913	1	1157.913	115.4903	0.000
AGE	1157.913	1	1157.913	115.4903	0.000
MAIN EFFECTS	8561.272	3	2853.757	284.6338	0.000
GENDER	8353.421	1	8353.421	833.1704	0.000
RACE	224.601	2	112.301	11.20087	0.000
2-WAY INTERACTIONS	60.827	2	30.414	3.033455	0.048
GENDER RACE	60.827	2	30.414	3.033455	0.048
EXPLAINED	9780.013	6	1630.002	162.5764	0.000
RESIDUAL	13354.719	1332	10.026		
TOTAL	23134.732	1338	17.291		

1399 CASES WERE PROCESSED.

CHEST DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	2131.718	1	2131.718	249.3974	0.000
AGE	2131.718	1	2131.718	249.3974	0.000
MAIN EFFECTS	9180.831	3	3060.277	358.0329	0.000
GENDER	8259.062	1	8259.062	966.2576	0.000
RACE	730.741	2	365.371	42.74603	0.000
2-WAY INTERACTIONS	99.908	2	49.954	5.844296	0.003
GENDER RACE	99.908	2	49.954	5.844296	0.003
EXPLAINED	11412.456	6	1902.076	222.5308	0.000
RESIDUAL	11419.425	1336	8.547		
TOTAL	22831.882	1342	17.013		

1399 CASES WERE PROCESSED.
56 CASES (4.0 PCT) WERE MISSING.

BIILIAC DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	945.322	1	945.322	126.651	0.000
AGE	945.322	1	945.322	126.651	0.000
MAIN EFFECTS	2340.895	3	780.298	104.5417	0.000
GENDER	882.497	1	882.497	118.2339	0.000
RACE	1379.678	2	689.839	92.42222	0.000
2-WAY INTERACTIONS	120.42	2	60.21	8.066706	0.000
GENDER RACE	120.42	2	60.21	8.066706	0.000
EXPLAINED	3406.637	6	567.773	76.06825	0.000
RESIDUAL	9942.038	1332	7.464		
TOTAL	13348.675	1338	9.977		

1399 CASES WERE PROCESSED.
60 CASES (4.3 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

BIDELTOID DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	721.886	1	721.886	73.84801	0.000
AGE	721.886	1	721.886	73.84801	0.000
MAIN EFFECTS	10007.845	3	3335.948	341.2634	0.000
GENDER	9866.548	1	9866.548	1009.336	0.000
RACE	91.908	2	45.954	4.701032	0.009
2-WAY INTERACTIONS	11.128	2	5.564	0.569204	0.566
GENDER RACE	11.128	2	5.564	0.569204	0.566
EXPLAINED	10740.859	6	1790.143	183.1294	0.000
RESIDUAL	13020.684	1332	9.775		
TOTAL	23761.543	1338	17.759		

1399 CASES WERE PROCESSED.
60 CASES (4.3 PCT) WERE MISSING.

BITROCHANTER DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	532.496	1	532.496	60.95304	0.000
AGE	532.496	1	532.496	60.95304	0.000
MAIN EFFECTS	2110.791	3	703.597	80.5384	0.000
GENDER	1330.579	1	1330.579	152.3069	0.000
RACE	729.236	2	364.618	41.7366	0.000
2-WAY INTERACTIONS	69.487	2	34.743	3.976969	0.019
GENDER RACE	69.487	2	34.743	3.976969	0.019
EXPLAINED	2712.774	6	452.129	51.7537	0.000
RESIDUAL	11671.519	1336	8.736		
TOTAL	14384.293	1342	10.719		

1399 CASES WERE PROCESSED.
56 CASES (4.0 PCT) WERE MISSING.

ELBOW DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	34.916	1	34.916	135.8035	0.000
AGE	34.916	1	34.916	135.8035	0.000
MAIN EFFECTS	193.974	3	64.658	251.4856	0.000
GENDER	189.685	1	189.685	737.7743	0.000
RACE	7.623	2	3.812	14.82489	0.000
2-WAY INTERACTIONS	1.086	2	0.543	2.112571	0.121
GENDER RACE	1.086	2	0.543	2.112571	0.121
EXPLAINED	229.976	6	38.329	149.0809	0.000
RESIDUAL	343.491	1336	0.257		
TOTAL	573.467	1342	0.427		

1399 CASES WERE PROCESSED.
56 CASES (4.0 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

WRIST DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	32.491	1	32.491	279.6465	0.000
AGE	32.491	1	32.491	279.6465	0.000
MAIN EFFECTS	116.34	3	38.78	333.7789	0.000
GENDER	112.95	1	112.95	972.1631	0.000
RACE	3.746	2	1.873	16.12215	0.000
2-WAY INTERACTIONS	0.351	2	0.175	1.509094	0.221
GENDER RACE	0.351	2	0.175	1.509094	0.221
EXPLAINED	149.181	6	24.863	214.0002	0.000
RESIDUAL	155.571	1339	0.116		
TOTAL	304.751	1345	0.227		

1399 CASES WERE PROCESSED.
53 CASES (3.8 PCT) WERE MISSING.

KNEE DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	8.356	1	8.356	25.63175	0.000
AGE	8.356	1	8.356	25.63175	0.000
MAIN EFFECTS	58.915	3	19.638	60.24332	0.000
GENDER	57.98	1	57.98	177.8623	0.000
RACE	0.198	2	0.099	0.3042177	0.738
2-WAY INTERACTIONS	0.363	2	0.182	0.5573093	0.573
GENDER RACE	0.363	2	0.182	0.5573093	0.573
EXPLAINED	67.634	6	11.272	34.57939	0.000
RESIDUAL	435.514	1336	0.326		
TOTAL	503.147	1342	0.375		

1399 CASES WERE PROCESSED.
56 CASES (4.0 PCT) WERE MISSING.

ANKLE DIAMETER (CM)
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	25.762	1	25.762	122.7501	0.000
AGE	25.762	1	25.762	122.7501	0.000
MAIN EFFECTS	132.486	3	44.162	210.424	0.000
GENDER	130.895	1	130.895	623.6922	0.000
RACE	3.569	2	1.784	8.50237	0.000
2-WAY INTERACTIONS	0.398	2	0.199	0.9473328	0.388
GENDER RACE	0.398	2	0.199	0.9473328	0.388
EXPLAINED	158.646	6	26.441	125.9861	0.000
RESIDUAL	280.389	1336	0.210		
TOTAL	439.034	1342	0.327		

1399 CASES WERE PROCESSED.
56 CASES (4.0 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

INCREMENTAL DYNAMIC LIFT
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	1479.373	1	1479.373	2.898221	0.089
AGE	1479.373	1	1479.373	2.898221	0.089
MAIN EFFECTS	747201.383	3	249067.128	487.9444	0.000
GENDER	746482.323	1	746482.323	1462.424	0.000
RACE	5929.484	2	2964.742	5.80819	0.003
2-WAY INTERACTIONS	2684.397	2	1342.199	2.629485	0.073
GENDER RACE	2684.397	2	1342.199	2.629485	0.073
EXPLAINED	751365.153	6	125227.526	245.3317	0.000
RESIDUAL	473689.82	928	510.442		
TOTAL	1225054.973	934	1311.622		

1399 CASES WERE PROCESSED.
464 CASES (33.2 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

SIT-UPS
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	75360905.432	1	75360905.432	9.655851	0.002
AGE	75360905.432	1	75360905.432	9.655851	0.002
MAIN EFFECTS	1046410707.689	3	348803569.230	44.69155	0.000
GENDER	1004982545.755	1	1004982545.755	128.7665	0.000
RACE	35984658.087	2	17992329.044	2.305323	0.100
2-WAY INTERACTIONS	27489685.113	2	13744842.557	1.761101	0.172
GENDER RACE	27489685.113	2	13744842.557	1.761101	0.172
EXPLAINED	1149261298.235	6	191543549.706	24.54212	0.000
RESIDUAL	**********	1341	7804687.900		
TOTAL	**********	1347	8623123.810		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

PUSH-UPS
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	74971.631	1	74971.631	223.3346	0.000
AGE	74971.631	1	74971.631	223.3346	0.000
MAIN EFFECTS	7894.611	3	2631.537	7.839141	0.000
GENDER	5402.411	1	5402.411	16.09336	0.000
RACE	2709.514	2	1354.757	4.035715	0.018
2-WAY INTERACTIONS	2002.049	2	1001.024	2.981973	0.051
GENDER RACE	2002.049	2	1001.024	2.981973	0.051
EXPLAINED	84868.290	6	14144.715	42.13599	0.000
RESIDUAL	450162.941	1341	335.692		
TOTAL	535031.231	1347	397.202		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

APFT SCORE
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	231.113	1	231.113	9.409032	0.002
AGE	231.113	1	231.113	9.409032	0.002
MAIN EFFECTS	2269.535	3	756.512	30.79902	0.000
GENDER	2086.608	1	2086.608	84.94975	0.000
RACE	105.694	2	52.847	2.151494	0.117
2-WAY INTERACTIONS	21.411	2	10.706	0.4358414	0.647
GENDER RACE	21.411	2	10.706	0.4358414	0.647
EXPLAINED	2522.059	6	420.343	17.11296	0.000
RESIDUAL	32938.778	1341	24.563		
TOTAL	35460.836	1347	26.326		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.

*** ANALYSIS OF VARIANCE ***

TWO MILE RUN TIME
BY GENDER
RACE
WITH AGE

SOURCE OF VARIATION	SUM OF SQUARES	DF	MEAN SQUARE	F	SIGNIF OF F
COVARIATES	61916.642	1	61916.642	204.5542	0.000
AGE	61916.642	1	61916.642	204.5542	0.000
MAIN EFFECTS	89175.357	3	29725.119	98.20296	0.000
GENDER	85706.592	1	85706.592	283.1491	0.000
RACE	1764.540	2	882.270	2.914758	0.055
2-WAY INTERACTIONS	644.739	2	322.370	1.065013	0.345
GENDER RACE	644.739	2	322.370	1.065013	0.345
EXPLAINED	151736.738	6	25289.456	83.54885	0.000
RESIDUAL	405908.172	1341	302.691		
TOTAL	557644.910	1347	413.990		

1399 CASES WERE PROCESSED.
51 CASES (3.6 PCT) WERE MISSING.